Collaborative Testing Services, Inc

FORENSIC TESTING PROGRAM

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DNA-Semen Test No. 24-5802
Summary Report

Each participant received a sample set consisting of two known bloodstains and two questioned stains which they were asked to analyze using their existing protocols. Data were returned from 202 participants and are compiled into the following tables:

Manufacturer's Information

Each sample set consisted of two known bloodstains on FTA™ Micro Cards (Items 1 and 2), and two questioned stains on colored fabric (Items 3 and 4). Participants were asked to analyze these items using their existing protocols.

SAMPLE PREPARATION: The stains on Items 1, 2, and 3 were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain on Item 4 was prepared using a mixture of human whole blood and semen. Item 1 (75 μL) and Item 3 (50 μL) were created using blood from the same female donor. Item 2 (75 μL) was created using blood from a male donor. Item 4 (50 μL) was created using a 1:1 mixture of blood from the female donor used in Item 1 and semen from the male donor used in Item 2. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on March 05, 2024 following completion of the verification stage.

SAMPLE SET ASSEMBLY: For each sample set, all Items (1-4) were packaged into separate envelopes and then placed together in a pre-labeled sample set envelope and sealed. The sealed sample set envelopes were then packaged in pre-labeled heat seal envelopes and sealed. This process was repeated until all of the sample sets were prepared.

VERIFICATION: Predistribution results were consistent with each other and the manufacturer's preparation information. Consistent allelic results were reported for all STR and YSTR loci.

Manufacturer's Information, continued

Amelogenin and STR Results

Results compiled from predistribution laboratories and a consensus of at least 10 participants.

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	
1	16,16	17,20	10,11	15,17	11,11	*
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NM	NM	NM	NM	
2	12,15	17,18	11,14	15,16	11,12	*
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19	2	
3	16,16	17,20	10,11	15,17	11,11	*
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NM	NM	NM	NM	
4-Blood	16,16	17,20	10,11	15,17	11,11	*
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NM	NM	NM	NM	
4-Semen	12,15	17,18	11,14	15,16	11,12	*
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19	2	

YSTR Results

Results compiled from predistribution laboratories and a consensus of at least 10 participants.

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
2	34,36	14	12,13	13	30	24	11	13	13
	15	12	12	19	27	12	17	10	22
	39	12	12	17	19	21	23	10	12
4-Semen	34,36	14	12,13	13	30	24	11	13	13
	15	12	12	19	27	12	17	10	22
	39	12	12	17	19	21	23	10	12

* Results were not received by a minimum of 10 participants for the loci indicated.

NM - Non-Male profile, YSTR results not expected.

Summary Comments

This test was designed to allow participants to assess their proficiency in the analysis and comparison of dried stains, where participants are advised of the body fluid(s) present in the questioned stains. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Item 1 and Item 3 were created using blood from the same female donor. Item 2 was created using blood from a male donor. Item 4 was created using a 1:1 mixture of blood from the female donor used in Item 1 and semen from the male donor used in Item 2. Refer to the Manufacturer's Information for preparation details.

DNA Analysis
For STR results, all participants reported consistent results, with the exception of five participants which reported an inconsistent result for one or more loci.

For YSTR results, all participants reported consistent results, with the exception of one participant.

DNA Interpretations
Of the 202 participants that returned DNA results, 188 reported DNA interpretations. Three participants selected the "No Interpretation" option for each conclusion and eleven stated the samples were analyzed for database purposes only.

For Item 3, all participants included the victim (Item 1) and excluded the suspect (Item 2) as possible contributors to the stain.

For Item 4, the majority of participants included the victim and one excluded the victim as a possible contributor. All participants included the suspect as a possible contributor.

STR Amplification Kit(s) & Results

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

23CVV2 GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	--
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	--			--	

2NDYRG GlobalFiler™ Express (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

2V7GXC GlobalFiler™ Express (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24			17,27.2	6	8,12
16,18	NM			NM	

2VF4M8 GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

37TMK9 PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

39UFNE PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	No Results	No Results	No Results		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 1 - STR Results

3ABDXD — Identifiler® Plus

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
		17,20		15,17	11,11	
1	10,13	12,14			8,9	10,11
	14,18	13,14	32,32.2		X,X	11,11
	21,24				6,6	8,12
	16,18					

3D8E4E — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18	NR				

3DANTD — Identifiler® Plus

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
		17,20		15,17	11,11	
1	10,13	12,14			8,9	10,11
	14,18	13,14	32,32.2		X,X	11,11
	21,24				6,6	8,12
	16,18					

3GNTE7 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

3MVECC — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18					

3PZY2W — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

3QYVY8 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

3Y7XXD — PowerPlex® Fusion 5C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11		6,6	8,12
16,18	N.D.				

477CLZ — PowerPlex® Fusion 5C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11		6	8,12
16,18	NA				

47Z9J9 — PowerPlex® Fusion 5C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11		6,6	8,12
16,18	No Results				

49T683 — PowerPlex® Fusion 5C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11		6	8,12
16,18	-				

4FPWFW — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

4GJQBF — Investigator® 24plex QS (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results				

4ZKJ8E — Investigator® 24plex GO! (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 1 - STR Results

62443A	GlobalFiler™					
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	No Results			No Results	
69U8LD	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	Not Tested
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	No Results	No Results	No Results	Not Tested	
6FKYH7	PowerPlex® Fusion					
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18	NR				
6JR9XH	GlobalFiler™					
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					
6ZCYWG	GlobalFiler™ (STRmix)					
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					
78AZNU	GlobalFiler™					
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18					
79HC4B	PowerPlex® Fusion, Investigator® 24plex QS					
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	No Results				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

79MF73	GlobalFiler™					
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

7CMR33	GlobalFiler™ Express					
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	NR			NR	

7DD4C8	GlobalFiler™ Express					
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X,X	11
	21,24			17,27.2	6	8,12
	16,18	NM			NM	

7EU268	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	No Results	No Results	No Results		

888JE3	GlobalFiler™					
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

8B8RHD	GlobalFiler™					
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

8DQTDY	GlobalFiler™ (STRmix)					
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

8GUNW3 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

8HMKLW — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

8MYDN9 — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

8P8Q7A — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

8RRR2W — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

8T74RE — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

8XMCFD — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 1 - STR Results

99DKD7 — PowerPlex® Fusion 6C

Item						
1	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

9B6G3Z — GlobalFiler™

Item						
1	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

9BXL8T — PowerPlex® Fusion 6C

Item						
1	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

9JV37D — GlobalFiler™ (STRmix)

Item						
1	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

A9T4X4 — PowerPlex® Fusion 6C

Item						
1	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

ACC6RQ — PowerPlex® Fusion 6c

Item						
1	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

AGJVVW — GlobalFiler™ (STRmix)

Item						
1	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 1 - STR Results

APVVP8 — PowerPlex® Fusion 5C (Item 1)

D1S1656 / etc.					
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11		6,6	8,12
16,18					

ATWWRP — PowerPlex® Fusion 6C (Item 1)

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

ATZ288 — Identifiler® Plus (Item 1)

	17,20		15,17	11,11	
10,13	12,14			8,9	10,11
14,18	13,14	32,32.2		X,X	11,11
21,24				6,6	8,12
16,18					

AV63EC — GlobalFiler™ (STRmix v2.7) (Item 1)

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

AY3N39 — GlobalFiler™ Express (Item 1)

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

B6DWA6 — PowerPlex® 21 (STRmix v2.8) (Item 1)

16,16	17,20		15,17	11,11	17,19
10,13	12,14		19,20	8,9	10,11
14,18	13,14	32,32.2		X,X	11,11
21,24	11,11	10,11		6,6	8,12
16,18					

B8UD6U — PowerPlex® Fusion 6C (Item 1)

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818** / **D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317** / **D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin** / **CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01** / **TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**

Item 1 - STR Results

B8WX4Q PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

BERZ73 PowerPlex® Fusion 5C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11		6,6	8,12
	16,18	No Results				

BJQDTR PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11	17,27.2	6	8,12
	16,18					

BKGC8Q GlobalFiler™ (TrueAllele)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

BNGN4Q PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

BQQJXV PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11	17,27.2	6	8,12
	16,18					

BR2LJT GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18					

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

C2MAR2 — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

C3E6GV — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11	17,27.2	6	8,12
	16,18					

CBUNXA — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

CLPBE4 — Investigator® 24plex QS

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	No Results				

CPQ4X3 — PowerPlex® 21

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,16	17,20		15,17	11,11	17,19
1	10,13	12,14		19,20	8,9	10,11
	14,18	13,14	32,32.2		X,X	11,11
	21,24	11,11	10,11		6,6	8,12
	16,18					

CQ6J34 — PowerPlex® Fusion 5C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11		6,6	8,12
	16,18					

CTB6TP — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

CWAAVA GlobalFiler™

	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

DHNGJ9 GlobalFiler™

	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

DJFJZW GlobalFiler™

	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

DKEFX7 PowerPlex® Fusion

	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11		6,6	8,12
	16,18	ND				

DRC87Z PowerPlex® Fusion 6C

	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

DU44VU PowerPlex® Fusion 6C

	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

DUYZT3 PowerPlex® Fusion 6C

	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	No Results	No Results	No Results		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 1 - STR Results

E3TEHU   GlobalFiler™

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

(Item 1)

E9YYFZ   GlobalFiler™ Express

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24			17,27.2	6	8,12
16,18	NM			NM	

(Item 1)

EDAX3Q   PowerPlex® Fusion 6C

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

(Item 1)

EFBA9Q   PowerPlex® Fusion 6C

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

(Item 1)

EJVXAQ   GlobalFiler™ Express

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

(Item 1)

ER88J6   PowerPlex® Fusion 6C

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	No Results	No Results	No Results		

(Item 1)

EUR9DR   GlobalFiler™ (STRmix)

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

(Item 1)

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 1 - STR Results

EV8HE6   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	No Results	No Results	No Results		

Item: 1

EXRJAR   GlobalFiler™ (STRMix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

Item: 1

EZ2F4W   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

Item: 1

F2UHKK   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

Item: 1

FDJEJW   Investigator® 24plex QS Kit (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results				

Item: 1

FJQ6M3   PowerPlex® Fusion 6C, Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	No Results	No Results	No Results		

Item: 1

FL3PNQ   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

Item: 1

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

FMUN2N — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

FWYMKX — Investigator® 24plex QS (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results				

FZGYNU — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

G4AMDZ — PowerPlex® Fusion (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11		6	8,12
16,18	NR				

GA2LW2 — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	no results	no results	no results		

GCQ34N — PowerPlex® Fusion 6C, GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

GU9UBZ — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	NR	NR	NR		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 1 - STR Results

GUMGMM — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18					

H482HJ — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

HBQBUM — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

HMKU9T — PowerPlex® Fusion 6C, GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	Not detected			Not detected	

HTQE7X — Investigator® 24plex QS

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results				

HVHDKV — GlobalFiler™ Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18					

HVWW6T — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 1 - STR Results

HYVDGM — PowerPlex® Fusion 6C — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

J3B67V — GlobalFiler™ Express — Item 1

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24				17,27.2	6	8,12
16,18	NM			NM	

J6J7GU — PowerPlex® Fusion 6C — Item 1

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	NR	NR	NR		

J8B37M — PowerPlex® Fusion 6C — Item 1

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

JABBBX — PowerPlex® Fusion 6C — Item 1

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	NR	NR	NR		

JB4DQL — PowerPlex® Fusion 6c — Item 1

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

JB4FFQ — GlobalFiler™ Express — Item 1

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24			17,27.2	6	8,12
16,18	NM			NM	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
Item	**D7S820**	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 1 - STR Results

JDVC6K PowerPlex® Fusion 6C

Item						
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

JPQC8N PowerPlex® Fusion 6C

Item						
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11	17,27.2	6	8,12
	16,18					

JW6K9P GlobalFiler™

Item						
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

K47UEH GlobalFiler™

Item						
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18					

K4JPH2 GlobalFiler™ (STRmix)

Item						
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

K9YX72 GlobalFiler™

Item						
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

KJE23Y GlobalFiler™, MiniFiler

Item						
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	No Results			No Results	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 1 - STR Results

KR8AMP — GlobalFiler™ Express

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
1	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X,X	11
	21,24			17,27.2	6	8,12
	16,18	NM			NM	

KTY7CJ — PowerPlex® Fusion 6C

1	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

KWYG7Y — Investigator® 24plex QS

1	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18					

L6R9QX — GlobalFiler™

1	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	No Results			No Results	

LEGZDP — PowerPlex® Fusion

1	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18	NR				

LMR2YQ — PowerPlex® Fusion

1	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18	NR				

M7JDCH — GlobalFiler™

1	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	--			--	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656** **D7S820** **D18S51** **FGA** **vWA**	**D2S1338** **D8S1179** **D19S433** **Penta D** **DYS391**	**D2S441** **D10S1248** **D21S11** **Penta E** **DYS570**	**D3S1358** **D12S391** **D22S1045** **SE33** **DYS576**	**D5S818** **D13S317** **Amelogenin** **TH01** **Y Indel**	**D6S1043** **D16S539** **CSF1PO** **TPOX**

Item 1 - STR Results

MGLXCP — PowerPlex® Fusion 6C, GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	Not Detected			Not Detected	

MHUWKC — PowerPlex® Fusion 6C

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

MWR89H — GlobalFiler™ Express

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

MWUPEU — PowerPlex® Fusion 6C

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	NR	NR	NR		

MZEQAF — PowerPlex® Fusion 6C

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

N3JN9F — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18					

N88HVF — PowerPlex® Fusion 6C

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

NDFRBN — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	ND	ND	ND		

NE8NYH — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

NET2NV — PowerPlex® Fusion 5C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11		6	8,12
16,18					

NJ3HWJ — GlobalFiler™ Express (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24			17,27.2	6	8,12
16,18					

NKDBMR — Investigator® 24plex QS (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results				

NKTU8P — GlobalFiler™ Express (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24			17,27.2	6	8,12
16,18	NM			NM	

NP93VN — Investigator® 24plex QS (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results				

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

NRXKYV — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11		6,6	8,12
16,18	ND				

NWDTMU — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	No Results	No Results	No Results		

NYXUGG — GlobalFiler™ (STRMix) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

P3DNVT — GlobalFiler™ Express — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results			No Results	

P6FL7L — GlobalFiler™ Express — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24			17,27.2	6	8,12
16,18	NM			NM	

PB4CGM — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18					

PENDBA — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

PGUUQT — GlobalFiler™ Express — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

PVF2UK — PowerPlex® Fusion 6C, GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	Not Detected			Not Detected	

PYBTZW — GlobalFiler™ (STRmix) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

QL6Z9K — PowerPlex® Fusion 6C, GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	Not detected			Not detected	

QXV32C — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

R76KLV — GlobalFiler™ (STRmix) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

R7LUCB — PowerPlex® Fusion 5C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24	11	10,11		6	8,12
16,18	NA				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 1 - STR Results

REJFDJ — GlobalFiler™ Express

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24			17,27.2	6	8,12
16,18	NM			NM	

RK89FB — GlobalFiler™

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	--			--	

RQNYNJ — PowerPlex® Fusion

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11		6	8,12
16,18	NR				

RV47CH — GlobalFiler™ Express

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24			17,27.2	6	8,12
16,18	NM			NM	

RWF78R — Investigator® 24plex QS

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results				

T37LNC — GlobalFiler™

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	--			--	

TA2NQM — PowerPlex® Fusion

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11		6,6	8,12
16,18					

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

TCLPKA — PowerPlex® Fusion 6C (STRmix 2.6.3) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

TJKCAN — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11		6,6	8,12
16,18	No Results				

TJQCMB — GlobalFiler™ (STRmix) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

TMQMGP — Investigator® 24plex GO! — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

TPBLL8 — PowerPlex® Fusion 5C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11		6,6	8,12
16,18					

TU4QDQ — Investigator® 24plex QS — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results				

U6LF3N — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	NR	NR	NR		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 1 - STR Results

U7G2PM	PowerPlex® Fusion					
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18	NR				
U8RXZJ	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		
UMNDZD	GlobalFiler™ Express					
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18	NR			NR	
UNX9HB	GlobalFiler™					
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18					
UVEX4Q	GlobalFiler™					
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					
V6D3JJ	Investigator® 24plex QS					
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	No Results				
VVCD9A	PowerPlex® Fusion 5C					
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 1 - STR Results

WADR4K Identifiler® Plus

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
		17,20		15,17	11,11	
1	10,13	12,14			8,9	10,11
	14,18	13,14	32,32.2		X,X	11,11
	21,24				6,6	8,12
	16,18					

WCCZWE GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

WGR9KE PowerPlex® Fusion 6C, GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	Not Detected			Not Detected	

WHHKUJ PowerPlex® Fusion 5C

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11		6,6	8,12
	16,18	No Results				

WL69G6 GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	--			--	

WW94ZB PowerPlex® Fusion 6C

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11	17,27.2	6	8,12
	16,18					

WZXUVK Investigator® 24plex QS

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	No Results				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 1 - STR Results

X3M9AM — GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

X78A49 — GlobalFiler™ (STRmix)

Item						
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X,X	11
	21,24			17,27.2	6	8,12
	16,18					

XBD4Y4 — PowerPlex® Fusion 6C

Item						
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

XJTTKJ — PowerPlex® Fusion 6C

Item						
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

XR9C6H — PowerPlex® Fusion

Item						
	16,16	17,20	10,11	15,17	11,11	
1	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11		6,6	8,12
	16,18	NR				

XRMZ7A — GlobalFiler™ Express

Item						
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X,X	11
	21,24			17,27.2	6	8,12
	16,18	NR			NR	

XUTDY6 — GlobalFiler™ Express

Item						
	16	17,20	10,11	15,17	11	
1	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

XWHRE8 — PowerPlex® Fusion 6C — Item 1

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

XXTL4F — PowerPlex® Fusion 6C — Item 1

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	No Results	No Results	No Results		

XYKKHD — PowerPlex® Fusion 5C — Item 1

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11		6	8,12
16,18	NR				

Y7GVQF — PowerPlex® Fusion 5C — Item 1

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11		6,6	8,12
16,18	No Results				

Y7MYT8 — PowerPlex® Fusion 6C — Item 1

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

YBTKRC — GlobalFiler™ Express — Item 1

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24			17,27.2	6	8,12
16,18	NM			NM	

YERXCF — PowerPlex® Fusion 6C — Item 1

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	No Results	No Results	No Results		

(32)

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

YMT4GJ — PowerPlex® Fusion 6C

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	NR	NR	NR		

YR3JQ8 — PowerPlex® Fusion 5C

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11		6	8,12
16,18	na				

YWXBWJ — Investigator® 24plex GO!

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

YX96NC — PowerPlex® Fusion 5C

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11		6	8,12
16,18	NR				

YXP8KD — GlobalFiler™

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

Z7JY7C — PowerPlex® Fusion 6C, GlobalFiler™

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	Not Detected			Not Detected	

ZTT8FG — PowerPlex® Fusion

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11		6	8,12
16,18	NR				

TABLE 1

WebCode	Amplification Kits	(Probabilistic Genotyping Software)			
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

23CVV2 — GlobalFiler™

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

Item: 2

2NDYRG — GlobalFiler™ Express

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

Item: 2

2V7GXC — GlobalFiler™ Express

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

Item: 2

2VF4M8 — GlobalFiler™

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

Item: 2

37TMK9 — PowerPlex® Fusion 6C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

Item: 2

39UFNE — PowerPlex® Fusion 6C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

Item: 2

3ABDXD — Identifiler® Plus

	17,18		15,16	11,12	
10,11	12,13			11,11	11,12
14,19	15,16	31.2,31.2		X,Y	10,13
21,23				6,8	8,10
17,18					

Item: 2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656** D7S820 D18S51 FGA vWA	**D2S1338** D8S1179 D19S433 Penta D DYS391	**D2S441** D10S1248 D21S11 Penta E DYS570	**D3S1358** D12S391 D22S1045 SE33 DYS576	**D5S818** D13S317 Amelogenin TH01 Y Indel	**D6S1043** D16S539 CSF1PO TPOX

Item 2 - STR Results

3D8E4E — PowerPlex® Fusion — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

3DANTD — Identifiler® Plus — Item 2

	17,18		15,16	11,12	
10,11	12,13			11,11	11,12
14,19	15,16	31.2,31.2		X,Y	10,13
21,23				6,8	8,10
17,18					

3GNTE7 — GlobalFiler™ — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

3MVECC — GlobalFiler™ Express — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

3PZY2W — PowerPlex® Fusion 6C — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

3QYVY8 — GlobalFiler™ — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

3Y7XXD — PowerPlex® Fusion 5C — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12		6,8	8,10
17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

477CLZ	PowerPlex® Fusion 5C					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				
47Z9J9	PowerPlex® Fusion 5C					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12		6,8	8,10
	17,18	11				
49T683	PowerPlex® Fusion 5C					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				
4FPWFW	PowerPlex® Fusion 6C					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		
4GJQBF	Investigator® 24plex QS					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11				
4ZKJ8E	Investigator® 24plex GO!					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11				
62443A	GlobalFiler™					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

69U8LD — PowerPlex® Fusion 6C

Item						
2	12,15	17,18	11,14	15,16	11,12	Not Tested
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19	Not Tested	

6FKYH7 — PowerPlex® Fusion

Item						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				

6JR9XH — GlobalFiler™

Item						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

6ZCYWG — GlobalFiler™ (STRmix)

Item						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

78AZNU — GlobalFiler™

Item						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

79HC4B — GlobalFiler™ Express

Item						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

79MF73 — GlobalFiler™

Item						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

7CMR33 — GlobalFiler™ Express

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

Item: 2

7DD4C8 — GlobalFiler™ Express

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

Item: 2

7EU268 — PowerPlex® Fusion 6C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

Item: 2

888JE3 — GlobalFiler™

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

Item: 2

8B8RHD — GlobalFiler™

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

Item: 2

8DQTDY — GlobalFiler™ (STRmix)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

Item: 2

8GUNW3 — GlobalFiler™

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

Item: 2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
Item	**D7S820**	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

8HMKLW — PowerPlex® Fusion 6C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

(Item 2)

8MYDN9 — PowerPlex® Fusion 6C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

(Item 2)

8P8Q7A — PowerPlex® Fusion 6C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

(Item 2)

8RRR2W — PowerPlex® Fusion 6C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

(Item 2)

8T74RE — GlobalFiler™ (STRmix)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

(Item 2)

8XMCFD — GlobalFiler™

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

(Item 2)

99DKD7 — PowerPlex® Fusion 6C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

(Item 2)

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

9B6G3Z	GlobalFiler™					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

9BXL8T	PowerPlex® Fusion 6C					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

9JV37D	GlobalFiler™ (STRmix)					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

A9T4X4	PowerPlex® Fusion 6C					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

ACC6RQ	PowerPlex® Fusion 6c					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

AGJVVW	GlobalFiler™ (STRmix)					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

APVVP8	PowerPlex® Fusion 5C					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12		6,8	8,10
	17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

ATWWRP — PowerPlex® Fusion 6C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

ATZ288 — Identifiler® Plus — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	17,18		15,16	11,12	
10,11	12,13			11,11	11,12
14,19	15,16	31.2,31.2		X,Y	10,13
21,23				6,8	8,10
17,18					

AV63EC — GlobalFiler™ (STRmix v2.7) — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

AY3N39 — GlobalFiler™ Express — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

B6DWA6 — PowerPlex® 21 (STRmix v2.8) — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18		15,16	11,12	12,14
10,11	12,13		16,23	11,11	11,12
14,19	15,16	31.2,31.2		X,Y	10,13
21,23	12,13	12,12		6,8	8,10
17,18					

B8UD6U — PowerPlex® Fusion 6C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

B8WX4Q — PowerPlex® Fusion 6C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

BERZ73 — PowerPlex® Fusion 5C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12		6,8	8,10
17,18	11				

BJQDTR — PowerPlex® Fusion 6C — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

BKGC8Q — GlobalFiler™ (TrueAllele) — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

BNGN4Q — Investigator® 24plex QS — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11				

BQQJXV — PowerPlex® Fusion 6C — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

BR2LJT — GlobalFiler™ — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

C2MAR2 — PowerPlex® Fusion 6C — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

C3E6GV PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		

CBUNXA GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

CLPBE4 GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

CPQ4X3 PowerPlex® 21

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15	17,18		15,16	11,12	12,14
	10,11	12,13		16,23	11,11	11,12
	14,19	15,16	31.2,31.2		X,Y	10,13
	21,23	12,13	12,12		6,8	8,10
	17,18					

CQ6J34 PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12		6,8	8,10
	17,18	11				

CTB6TP PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

CWAAVA GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656** **D7S820** **D18S51** **FGA** **vWA**	**D2S1338** **D8S1179** **D19S433** **Penta D** **DYS391**	**D2S441** **D10S1248** **D21S11** **Penta E** **DYS570**	**D3S1358** **D12S391** **D22S1045** **SE33** **DYS576**	**D5S818** **D13S317** **Amelogenin** **TH01** **Y Indel**	**D6S1043** **D16S539** **CSF1PO** **TPOX**

Item 2 - STR Results

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
DHNGJ9 — GlobalFiler™						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	
DJFJZW — GlobalFiler™						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	
DKEFX7 — PowerPlex® Fusion						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12		6,8	8,10
	17,18	11				
DRC87Z — PowerPlex® Fusion 6C						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		
DU44VU — PowerPlex® Fusion 6C						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		
DUYZT3 — PowerPlex® Fusion 6C						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		
E3TEHU — GlobalFiler™						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

E9YYFZ — GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

EDAX3Q — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

EFBA9Q — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

EJVXAQ — GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

ER88J6 — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

EUR9DR — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

EV8HE6 — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

EXRJAR — GlobalFiler™ (STRMix)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

EZ2F4W — PowerPlex® Fusion 6C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

F2UHKK — PowerPlex® Fusion 6C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

FDJEJW — Investigator® 24plex QS Kit (STRmix)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11				

FJQ6M3 — PowerPlex® Fusion 6C, Fusion 5C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

FL3PNQ — PowerPlex® Fusion 6C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

FMUN2N — GlobalFiler™

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

FWYMKX — Investigator® 24plex QS — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11				

FZGYNU — GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

G4AMDZ — PowerPlex® Fusion — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

GA2LW2 — PowerPlex® Fusion 6C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

GCQ34N — PowerPlex® Fusion 6C, GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19	2	

GU9UBZ — PowerPlex® Fusion 6C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

GUMGMM — GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

H482HJ PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

HBQBUM PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		

HMKU9T PowerPlex® Fusion 6C, GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

HTQE7X Investigator® 24plex QS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11				

HVHDKV GlobalFiler™ Plus

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

HVWW6T GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

HYVDGM PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		

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TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
J3B67V GlobalFiler™ Express						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	
J6J7GU PowerPlex® Fusion 6C						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		
J8B37M PowerPlex® Fusion 6C						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		
JABBBX PowerPlex® Fusion 6C						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		
JB4DQL PowerPlex® Fusion 6c						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		
JB4FFQ GlobalFiler™ Express						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	
JDVC6K PowerPlex® Fusion 6C						
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

JPQC8N	PowerPlex® Fusion 6C					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		

JW6K9P	GlobalFiler™					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

K47UEH	GlobalFiler™					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

K4JPH2	GlobalFiler™ (STRmix)					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

K9YX72	GlobalFiler™					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

KJE23Y	GlobalFiler™					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

KR8AMP	GlobalFiler™ Express					
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

KTY7CJ — PowerPlex® Fusion 6C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

KWYG7Y — Investigator® 24plex QS — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11				

L6R9QX — GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

LEGZDP — PowerPlex® Fusion — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

LMR2YQ — PowerPlex® Fusion — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

M7JDCH — GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

MGLXCP — PowerPlex® Fusion 6C, GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

MHUWKC — PowerPlex® Fusion 6C

	D1S1656/...	D2S1338/...	D2S441/...	D3S1358/...	D5S818/...	D6S1043/...
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

MWR89H — GlobalFiler™ Express

2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

MWUPEU — PowerPlex® Fusion 6C

2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

MZEQAF — PowerPlex® Fusion 6C

2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

N3JN9F — GlobalFiler™

2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

N88HVF — PowerPlex® Fusion 6C

2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

NDFRBN — PowerPlex® Fusion 6C

2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

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TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

NE8NYH — PowerPlex® Fusion 6C — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

NET2NV — PowerPlex® Fusion 5C — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

NJ3HWJ — GlobalFiler™ Express — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

NKDBMR — Investigator® 24plex QS — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11				

NKTU8P — GlobalFiler™ Express — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

NP93VN — Investigator® 24plex QS — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11				

NRXKYV — PowerPlex® Fusion — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12		6,8	8,10
17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

NWDTMU — PowerPlex® Fusion 6C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

NYXUGG — GlobalFiler™ (STRMix) — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

P3DNVT — GlobalFiler™ Express — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

P6FL7L — GlobalFiler™ Express — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

PB4CGM — GlobalFiler™ — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

PENDBA — PowerPlex® Fusion 6C — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

PGUUQT — GlobalFiler™ Express — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

PVF2UK — PowerPlex® Fusion 6C, GlobalFiler™ — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

PYBTZW — GlobalFiler™ (STRmix) — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

QL6Z9K — PowerPlex® Fusion 6C, GlobalFiler™ — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

QXV32C — PowerPlex® Fusion 6C — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

R76KLV — GlobalFiler™ (STRmix) — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

R7LUCB — PowerPlex® Fusion 5C — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

REJFDJ — GlobalFiler™ Express — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

RK89FB — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

RQNYNJ — PowerPlex® Fusion — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

RV47CH — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

RWF78R — Investigator® 24plex QS — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11				

T37LNC — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

TA2NQM — PowerPlex® Fusion — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12		6,8	8,10
17,18	11				

TCLPKA — PowerPlex® Fusion 6C (STRmix 2.6.3) — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)				
	D1S1656	**D2S1338**	**D2S441**	**D3S1358**	**D5S818** / **D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317** / **D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin** / **CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01** / **TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**

Item 2 - STR Results

TJKCAN   PowerPlex® Fusion, MiniFiler

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12		6,8	8,10
17,18	11				

(Item 2)

TJQCMB   GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

(Item 2)

TMQMGP   Investigator® 24plex GO!

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11				

(Item 2)

TPBLL8   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

(Item 2)

TU4QDQ   Investigator® 24plex QS

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11				

(Item 2)

U6LF3N   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

(Item 2)

U7G2PM   PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

(Item 2)

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

U8RXZJ — PowerPlex® Fusion 6C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

UMNDZD — GlobalFiler™ Express — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

UNX9HB — GlobalFiler™ — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

UVEX4Q — GlobalFiler™ — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

V6D3JJ — Investigator® 24plex QS — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11				

VVCD9A — PowerPlex® Fusion 5C — Item 2

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

WADR4K — Identifiler® Plus — Item 2

	17,18		15,16	11,12	
10,11	12,13			11,11	11,12
14,19	15,16	31.2,31.2		X,Y	10,13
21,23				6,8	8,10
17,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

WCCZWE — GlobalFiler™

Item						
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

WGR9KE — PowerPlex® Fusion 6C, GlobalFiler™

Item						
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

WHHKUJ — PowerPlex® Fusion 5C

Item						
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12		6,8	8,10
	17,18	11				

WL69G6 — GlobalFiler™

Item						
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

WW94ZB — PowerPlex® Fusion 6C

Item						
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		

WZXUVK — Investigator® 24plex QS

Item						
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11				

X3M9AM — GlobalFiler™

Item						
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

X78A49 GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

Item: 2

XBD4Y4 PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

Item: 2

XJTTKJ PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

Item: 2

XR9C6H PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12		6,8	8,10
17,18	11				

Item: 2

XRMZ7A GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

Item: 2

XUTDY6 GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

Item: 2

XWHRE8 PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

Item: 2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 2 - STR Results

XXTL4F — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

XYKKHD — PowerPlex® Fusion 5C

	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				

Y7GVQF — PowerPlex® Fusion 5C

	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12		6,8	8,10
	17,18	11				

Y7MYT8 — PowerPlex® Fusion 6C

	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		

YBTKRC — GlobalFiler™ Express

	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

YERXCF — PowerPlex® Fusion 6C

	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

YMT4GJ — PowerPlex® Fusion 6C

	12,15	17,18	11,14	15,16	11,12	
2	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

TABLE 1

Item	D1S1656 D7S820 D18S51 FGA vWA	D2S1338 D8S1179 D19S433 Penta D DYS391	D2S441 D10S1248 D21S11 Penta E DYS570	D3S1358 D12S391 D22S1045 SE33 DYS576	D5S818 D13S317 Amelogenin TH01 Y Indel	D6S1043 D16S539 CSF1PO TPOX

WebCode   Amplification Kits (Probabilistic Genotyping Software)

Item 2 - STR Results

YR3JQ8   PowerPlex® Fusion 5C

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				

YWXBWJ   Investigator® 24plex GO!

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11				

YX96NC   PowerPlex® Fusion 5C

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				

YXP8KD   GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

Z7JY7C   PowerPlex® Fusion 6C, GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

ZTT8FG   PowerPlex® Fusion

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
2	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				

TABLE 1

Item / WebCode	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

23CV2 — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	--			--	

2NDYRG — GlobalFiler™ (STRmix) (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

2V7GXC — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24			17,27.2	6	8,12
16,18	NM			NM	

2VF4M8 — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

37TMK9 — PowerPlex® Fusion 6C (STRmix) (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

39UFNE — Investigator® 24plex QS (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results				

3ABDXD — Identifiler® Plus (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,20		15,17	11,11	
10,13	12,14			8,9	10,11
14,18	13,14	32,32.2		X,X	11,11
21,24				6,6	8,12
16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

	D1/D7/D18/FGA/vWA	D2S1338/D8/D19/PentaD/DYS391	D2S441/D10/D21/PentaE/DYS570	D3/D12/D22/SE33/DYS576	D5/D13/Amelo/TH01/YIndel	D6/D16/CSF/TPOX
3D8E4E	PowerPlex® Fusion					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18	NR				
3DANTD	Identifiler® Plus					
		17,20		15,17	11,11	
3	10,13	12,14			8,9	10,11
	14,18	13,14	32,32.2		X,X	11,11
	21,24				6,6	8,12
	16,18					
3GNTE7	GlobalFiler™					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					
3MVECC	GlobalFiler™					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					
3PZY2W	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					
3QYVY8	GlobalFiler™					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					
3Y7XXD	PowerPlex® Fusion 5C					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11		6,6	8,12
	16,18	N.D.				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656** **D7S820** **D18S51** **FGA** **vWA**	**D2S1338** **D8S1179** **D19S433** **Penta D** **DYS391**	**D2S441** **D10S1248** **D21S11** **Penta E** **DYS570**	**D3S1358** **D12S391** **D22S1045** **SE33** **DYS576**	**D5S818** **D13S317** **Amelogenin** **TH01** **Y Indel**	**D6S1043** **D16S539** **CSF1PO** **TPOX**

Item 3 - STR Results

477CLZ PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18	NA				

47Z9J9 GlobalFiler™ (STRmix)

	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	No Results			No Results	

49T683 PowerPlex® Fusion 5C

	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18	-				

4FPWFW PowerPlex® Fusion 6C

	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

4GJQBF PowerPlex® Fusion 6C (STRmix)

	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	No Results	No Results	No Results		

4ZKJ8E Investigator® 24plex QS

	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

62443A PowerPlex® Fusion 5C

	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11		6,6	8,12
	16,18	No Results				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

69U8LD — PowerPlex® Fusion 6C — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,16	17,20	10,11	15,17	11,11	Not Tested
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	No Results	No Results	No Results	Not Tested	

6FKYH7 — PowerPlex® Fusion — Item 3

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11		6	8,12
16,18	NR				

6JR9XH — GlobalFiler™ — Item 3

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

6ZCYWG — GlobalFiler™ (STRmix) — Item 3

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

78AZNU — GlobalFiler™ — Item 3

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18					

79MF73 — GlobalFiler™ — Item 3

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

7DD4C8 — GlobalFiler™ — Item 3

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24			17,27.2	6	8,12
16,18	NM			NM	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

7EU268 GlobalFiler™ (STRmix)   Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results			No Results	

888JE3 GlobalFiler™   Item 3

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

8B8RHD GlobalFiler™ (STRmix)   Item 3

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

8DQTDY GlobalFiler™ (STRmix)   Item 3

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

8GUNW3 GlobalFiler™   Item 3

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

8HMKLW PowerPlex® Fusion 6C   Item 3

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

8MYDN9 PowerPlex® Fusion 6C   Item 3

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	NR	NR	NR		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

8P8Q7A PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

8RRR2W PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

8T74RE GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

8XMCFD GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

99DKD7 PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

9B6G3Z GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

9BXL8T PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

9JV37D — GlobalFiler™ (STRmix) — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

A9T4X4 — PowerPlex® Fusion 6C (STRmix V2.5.11) — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	NR	NR	NR		

ACC6RQ — PowerPlex® Fusion 6c — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

AGJVVW — GlobalFiler™ (STRmix) — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

APVVP8 — GlobalFiler™ (STRmix) — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18					

ATWWRP — PowerPlex® Fusion 6C — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

ATZ288 — Identifiler® Plus — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	17,20		15,17	11,11	
10,13	12,14			8,9	10,11
14,18	13,14	32,32.2		X,X	11,11
21,24				6,6	8,12
16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

AV63EC — GlobalFiler™ (STRmix v2.7)

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

AY3N39 — GlobalFiler™ (STRmix)

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

B6DWA6 — PowerPlex® 21 (STRmix v2.8)

16,16	17,20		15,17	11,11	17,19
10,13	12,14		19,20	8,9	10,11
14,18	13,14	32,32.2		X,X	11,11
21,24	11,11	10,11		6,6	8,12
16,18					

B8UD6U — PowerPlex® Fusion 6C

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

B8WX4Q — PowerPlex® Fusion 6C

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

BERZ73 — GlobalFiler™

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results			No Results	

BJQDTR — PowerPlex® Fusion 6C (STRMix 2.6.3)

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

TABLE 1

WebCode / Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

BKGC8Q — GlobalFiler™ (TrueAllele)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

BQQJXV — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11	17,27.2	6	8,12
	16,18					

C2MAR2 — PowerPlex® Fusion 6C (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

C3E6GV — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11	17,27.2	6	8,12
	16,18					

CBUNXA — GlobalFiler™ (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

CLPBE4 — PowerPlex® Fusion 5C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11		6,6	8,12
	16,18	No Results				

CPQ4X3 — PowerPlex® 21

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16,16	17,20		15,17	11,11	17,19
	10,13	12,14		19,20	8,9	10,11
	14,18	13,14	32,32.2		X,X	11,11
	21,24	11,11	10,11		6,6	8,12
	16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

CQ6J34   GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18					

CTB6TP   PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

CWAAVA   GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

DHNGJ9   GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

DJFJZW   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

DKEFX7   PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11		6,6	8,12
	16,18	ND				

DRC87Z   PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

DU44VU — PowerPlex® Fusion 6C (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

DUYZT3 — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results			No Results	

E3TEHU — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

E9YYFZ — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24			17,27.2	6	8,12
16,18	NM			NM	

EDAX3Q — PowerPlex® Fusion 6C (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

EFBA9Q — PowerPlex® Fusion 6C (STRmix) (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

EJVXAQ — GlobalFiler™ (STRmix) (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

ER88J6 — PowerPlex® Fusion 6C — Item 3

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	No Results	No Results	No Results		

EUR9DR — GlobalFiler™ (STRmix) — Item 3

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

EV8HE6 — PowerPlex® Fusion 6C — Item 3

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	No Results	No Results	No Results		

EXRJAR — GlobalFiler™ (STRmix) — Item 3

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

EZ2F4W — PowerPlex® Fusion 6C (STRmix) — Item 3

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

F2UHKK — PowerPlex® Fusion 6C — Item 3

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

FDJEJW — PowerPlex® Fusion 6C (STRmix) — Item 3

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	No Results	No Results	No Results		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

FJQ6M3 — Investigator® 24plex QS — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results				

FL3PNQ — PowerPlex® Fusion 6C — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

FMUN2N — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

FWYMKX — PowerPlex® Fusion5C — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11		6,6	8,12
16,18	No Results				

FZGYNU — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

G4AMDZ — PowerPlex® Fusion — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11		6	8,12
16,18	NR				

GA2LW2 — PowerPlex® Fusion 6C — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	no results	no results	no results		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

GCQ34N   PowerPlex® Fusion 6C, GlobalFiler™

	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X,X	11
	21,24	11	10,11	17,27.2	6	8,12
	16,18					

GU9UBZ   PowerPlex® Fusion 6C

	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

GUMGMM   GlobalFiler™

	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18					

H482HJ   PowerPlex® Fusion 6C

	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

HBQBUM   PowerPlex® Fusion 6C

	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11	17,27.2	6	8,12
	16,18					

HMKU9T   GlobalFiler™

	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	Not detected			Not detected	

HTQE7X   PowerPlex® Fusion 6C (STRmix)

	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	No Results	No Results	No Results		

TABLE 1

WebCode	Amplification Kits	(Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

HVHDKV	GlobalFiler™ Plus					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18					
HVWW6T	GlobalFiler™					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					
HYVDGM	PowerPlex® Fusion 6C (STRmix v 2.6.3)					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11	17,27.2	6	8,12
	16,18					
J3B67V	GlobalFiler™					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X,X	11
	21,24			17,27.2	6	8,12
	16,18	NM			NM	
J6J7GU	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		
J8B37M	PowerPlex® Fusion 6C					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11	17,27.2	6	8,12
	16,18					
JABBBX	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
	D1S1656	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
Item	**D7S820**	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

JB4DQL PowerPlex® Fusion 6c

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

(Item 3)

JB4FFQ GlobalFiler™

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24			17,27.2	6	8,12
16,18	NM			NM	

(Item 3)

JDVC6K PowerPlex® Fusion 6C

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

(Item 3)

JPQC8N PowerPlex® Fusion 6C

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

(Item 3)

JW6K9P GlobalFiler™

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

(Item 3)

K47UEH GlobalFiler™

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18					

(Item 3)

K4JPH2 GlobalFiler™ (STRmix)

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

(Item 3)

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
	D1S1656	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
Item	**D7S820**	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

K9YX72 GlobalFiler™

	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

KJE23Y PowerPlex® Fusion 6C (STRmix v2.5.11)

	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	No Results	No Results	No Results		

KR8AMP GlobalFiler™

	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X,X	11
	21,24			17,27.2	6	8,12
	16,18	NM			NM	

KTY7CJ PowerPlex® Fusion 6C

	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

KWYG7Y PowerPlex® Fusion 6C (STRmix)

	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

L6R9QX PowerPlex® Fusion 5C

	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11		6,6	8,12
	16,18	No Results				

LEGZDP PowerPlex® Fusion

	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18	NR				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

LMR2YQ	PowerPlex® Fusion					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18	NR				
M7JDCH	GlobalFiler™					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	--			--	
MGLXCP	GlobalFiler™					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	Not Detected			Not Detected	
MHUWKC	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					
MWR89H	GlobalFiler™					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					
MWUPEU	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		
MZEQAF	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

N3JN9F	GlobalFiler™					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18					
N88HVF	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					
NDFRBN	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	ND	ND	ND		
NE8NYH	PowerPlex® Fusion 6C					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11	17,27.2	6	8,12
	16,18					
NET2NV	PowerPlex® Fusion 5C					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18					
NKDBMR	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	No Results	No Results	No Results		
NKTU8P	GlobalFiler™					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X,X	11
	21,24			17,27.2	6	8,12
	16,18	NM			NM	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

NP93VN — PowerPlex® Fusion 5C — 3

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11		6,6	8,12
16,18	No Results				

NRXKYV — PowerPlex® Fusion — 3

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11		6,6	8,12
16,18	ND				

NWDTMU — PowerPlex® Fusion 6C — 3

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18	No Results	No Results	No Results		

NYXUGG — GlobalFiler™ (STRMix) — 3

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24			17,27.2	6	8,12
16,18					

P6FL7L — GlobalFiler™ — 3

16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X,X	11
21,24			17,27.2	6	8,12
16,18	NM			NM	

PB4CGM — GlobalFiler™ — 3

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18					

PENDBA — PowerPlex® Fusion 6C — 3

16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11	17,27.2	6,6	8,12
16,18					

TABLE 1

Item	WebCode	Amplification Kits (Probabilistic Genotyping Software)					
		D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
		D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
		D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
		FGA	Penta D	Penta E	SE33	TH01	TPOX
		vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

	PGUUQT	GlobalFiler™ (STRmix)					
		16	17,20	10,11	15,17	11	
3		10,13	12,14	14	19,20	8,9	10,11
		14,18	13,14	32,32.2	15	X	11
		21,24			17,27.2	6	8,12
		16,18					

	PVF2UK	GlobalFiler™					
		16,16	17,20	10,11	15,17	11,11	
3		10,13	12,14	14,14	19,20	8,9	10,11
		14,18	13,14	32,32.2	15,15	X,X	11,11
		21,24			17,27.2	6,6	8,12
		16,18	Not Detected			Not Detected	

	PYBTZW	GlobalFiler™ (STRmix)					
		16	17,20	10,11	15,17	11	
3		10,13	12,14	14	19,20	8,9	10,11
		14,18	13,14	32,32.2	15	X	11
		21,24			17,27.2	6	8,12
		16,18					

	QL6Z9K	GlobalFiler™					
		16,16	17,20	10,11	15,17	11,11	
3		10,13	12,14	14,14	19,20	8,9	10,11
		14,18	13,14	32,32.2	15,15	X,X	11,11
		21,24			17,27.2	6,6	8,12
		16,18	Not detected			Not detected	

	QXV32C	PowerPlex® Fusion 6C					
		16,16	17,20	10,11	15,17	11,11	
3		10,13	12,14	14,14	19,20	8,9	10,11
		14,18	13,14	32,32.2	15,15	X,X	11,11
		21,24	11,11	10,11	17,27.2	6,6	8,12
		16,18					

	R76KLV	GlobalFiler™ (STRmix)					
		16	17,20	10,11	15,17	11	
3		10,13	12,14	14	19,20	8,9	10,11
		14,18	13,14	32,32.2	15	X	11
		21,24			17,27.2	6	8,12
		16,18					

	R7LUCB	PowerPlex® Fusion 5C					
		16	17,20	10,11	15,17	11	
3		10,13	12,14	14	19,20	8,9	10,11
		14,18	13,14	32,32.2	15	X,X	11
		21,24	11	10,11		6	8,12
		16,18	NA				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

REJFDJ	GlobalFiler™					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X,X	11
	21,24			17,27.2	6	8,12
	16,18	NM			NM	
RK89FB	GlobalFiler™					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	--			--	
RQNYNJ	PowerPlex® Fusion					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18	NR				
RV47CH	GlobalFiler™					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X,X	11
	21,24			17,27.2	6	8,12
	16,18	NM			NM	
RWF78R	PowerPlex® Fusion 5C					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11		6,6	8,12
	16,18	No Results				
TA2NQM	PowerPlex® Fusion					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11		6,6	8,12
	16,18					
TCLPKA	PowerPlex® Fusion 6C (STRmix 2.6.3)					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11	17,27.2	6	8,12
	16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

TJQCMB GlobalFiler™ (STRmix)

3						
	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

TMQMGP Investigator® 24plex QS

3						
	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

TU4QDQ PowerPlex® Fusion 6C

3						
	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	No Results	No Results	No Results		

U6LF3N PowerPlex® Fusion 6C

3						
	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

U7G2PM PowerPlex® Fusion

3						
	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18	NR				

U8RXZJ PowerPlex® Fusion 6C (STRmix v2.5.11)

3						
	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

UNX9HB GlobalFiler™ (STRMIX)

3						
	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

UVEX4Q GlobalFiler™ (STRmix)

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

V6D3JJ PowerPlex® Fusion 6C (STRmix)

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	No Results	No Results	No Results		

WCD9A PowerPlex® Fusion 5C

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18					

WADR4K Identifiler® Plus

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3		17,20		15,17	11,11	
	10,13	12,14			8,9	10,11
	14,18	13,14	32,32.2		X,X	11,11
	21,24				6,6	8,12
	16,18					

WCCZWE GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

WGR9KE GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	Not Detected			Not Detected	

WHHKUJ GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	No Results			No Results	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
	D1S1656	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
Item	**D7S820**	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

WL69G6	GlobalFiler™					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	--			--	

WW94ZB	PowerPlex® Fusion 6C					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11	17,27.2	6	8,12
	16,18					

WZXUVK	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	No Results	No Results	No Results		

X3M9AM	GlobalFiler™ (STRmix)					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

X78A49	GlobalFiler™ (STRmix)					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X,X	11
	21,24			17,27.2	6	8,12
	16,18					

XBD4Y4	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18					

XJTTKJ	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

XR9C6H — PowerPlex® Fusion (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24	11,11	10,11		6,6	8,12
16,18	NR				

XUTDY6 — PowerPlex® Fusion 6C (STRMix v 2.6.3) (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

XWHRE8 — PowerPlex® Fusion 6C (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

XXTL4F — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results			No Results	

XYKKHD — PowerPlex® Fusion 5C (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11		6	8,12
16,18	NR				

Y7GVQF — Investigator® 24plex QS (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,16	17,20	10,11	15,17	11,11	
10,13	12,14	14,14	19,20	8,9	10,11
14,18	13,14	32,32.2	15,15	X,X	11,11
21,24			17,27.2	6,6	8,12
16,18	No Results				

Y7MYT8 — PowerPlex® Fusion 6C (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16	17,20	10,11	15,17	11	
10,13	12,14	14	19,20	8,9	10,11
14,18	13,14	32,32.2	15	X	11
21,24	11	10,11	17,27.2	6	8,12
16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
	D1S1656	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
Item	**D7S820**	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

WebCode	D1/D7/D18/FGA/vWA	D2S1338/D8/D19/PentaD/DYS391	D2S441/D10/D21/PentaE/DYS570	D3/D12/D22/SE33/DYS576	D5/D13/Amel/TH01/YIndel	D6/D16/CSF/TPOX
YBTKRC	GlobalFiler™					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X,X	11
	21,24			17,27.2	6	8,12
	16,18	NM			NM	
YERXCF	GlobalFiler™					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	No Results			No Results	
YMT4GJ	PowerPlex® Fusion 6C					
	16,16	17,20	10,11	15,17	11,11	
3	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24	11,11	10,11	17,27.2	6,6	8,12
	16,18	NR	NR	NR		
YR3JQ8	PowerPlex® Fusion 5C					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18	na				
YWXBWJ	Investigator® 24plex QS					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					
YX96NC	PowerPlex® Fusion 5C					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18	NR				
YXP8KD	GlobalFiler™					
	16	17,20	10,11	15,17	11	
3	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24			17,27.2	6	8,12
	16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3 - STR Results

Z7JY7C   GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	16,16	17,20	10,11	15,17	11,11	
	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18	Not Detected			Not Detected	

ZTT8FG   PowerPlex® Fusion

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	16	17,20	10,11	15,17	11	
	10,13	12,14	14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15	X	11
	21,24	11	10,11		6	8,12
	16,18	NR				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 3e - STR Results

BR2LJT	GlobalFiler™					
	16,16	17,20	10,11	15,17	11,11	
3e	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18					
T37LNC	GlobalFiler™					
	16,16	17,20	10,11	15,17	11,11	
3e	10,13	12,14	14,14	19,20	8,9	10,11
	14,18	13,14	32,32.2	15,15	X,X	11,11
	21,24			17,27.2	6,6	8,12
	16,18				--	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3sp - STR Results

BR2LJT   GlobalFiler™

3sp

T37LNC   GlobalFiler™

	--	--	--	--	--	
3sp	--	--	--	--	--	--
	--	--	--	--	--	--
	--			--	--	--
	--	--			----	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4 - STR Results

EZ2F4W	PowerPlex® Fusion 6C (STRmix)					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

23CV2 — GlobalFiler™ (Item 4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

2NDYRG — GlobalFiler™ (STRmix) (Item 4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

2V7GXC — GlobalFiler™ (Item 4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

2VF4M8 — GlobalFiler™ (Item 4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

37TMK9 — PowerPlex® Fusion 6C (STRmix) (Item 4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

39UFNE — Investigator® 24plex QS (Item 4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
[12],[15],16	17,18,[20]	10,11,14	15,[16],[17]	11,[12]	
10,[11],[13]	12,[13],[14]	14,[15],[18]	16,19,20,23	8,[9],11	10,11,12
14,[18],[19]	13,14,15,16	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],[24]			17,19,20,27.2	6,[8]	8,[10],[12]
16,17,18	11				

3ABDXD — Identifiler® Plus (Item 4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,18,20		15,16,17	11,12	
10,11,13	12,13,14			8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2		X,Y	10,11,13
21,23,24				6,8	8,10,12
16,17,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

3D8E4E — PowerPlex® Fusion

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12		6,8	8,10,12
16,17,18	11				

3DANTD — Identifiler® Plus

	17,18,20		15,16,17	11,12	
10,11	12,13,14			9,11	10,11,12
14,18,19	13,14,15,16	31.2,31.2		X,Y	10,11,13
21,23				6,8	8,10,12
16,17,18					

3GNTE7 — GlobalFiler™

12,15,16	17,18,[20]	10,11,14	15,16,[17]	11,12	
10,11,[13]	12,13,14	14,15,18	16,20,23	8,9,11	[10],11,12
14,[18],19	[13],15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,[24]			17,19,20,27.2	6,8	8,10
16,17,18	11			2	

3MVECC — GlobalFiler™

12,15,16	17,18,20	10,11,14	15,16,17	11	
10,11,13	12,13,14	14	19,20	8,9,11	10,11,12
14,18	13,14,15,16	31.2,32,32.2	12,15,16	X	10,11
21,23,24			17,20,27.2	6,8	8,10,12
16,17,18	11			2	

3PZY2W — PowerPlex® Fusion 6C (STRMix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

3QYVY8 — GlobalFiler™

[12],[15],16	17,18,[20]	10,11,[14]	15,[16],[17]	11,[12]	
10,[11],[13]	12,[13],[14]	14,[15],[18]	16,19,20,23	8,9,11	[10],11,[12]
14,18,[19]	13,14,15,16	31.2,32,[32.2]	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],[24]			17,19,20,27.2	6,[8]	8,[10],[12]
[16],[17],18	11			2	

3Y7XXD — PowerPlex® Fusion 5C

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12		6,8	8,10,12
16,17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

477CLZ — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
[12,15],16	17,[18,20]	[10],11,[14]	15,[16,17]	11,[12]	
10,[11],13	12,[13,14]	14,[15,18]	16,19,20,23	8,9,11	10,11,12
14,18,[19]	13,14,15,16	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],24	11,[12,13]	10,11,[12]		6,[8]	8,[10],12
16,17,18	11				

47Z9J9 — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
[12],[15],16	17,[18],[20]	10,11,[14]	15,[16],17	11,[12]	
10,[11],13	12,[13],14	14,[15],[18]	[16],19,20,[23]	8,9,11	10,11,[12]
14,18,[19]	13,14,15,16	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],24			17,[19],[20],27.2	6,[8]	8,[10],[12]
16,[17],18	11			2	

49T683 — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12		6,8	8,10,12
16,17,18	11				

4FPWFW — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

4GJQBF — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
[12],[15],16	17,[18],[20]	10,11,[14]	15,[16],[17]	11,[12]	
10,[11],[13]	12,[13],[14]	14,[15],[18]	16,19,20,23	8,9,11	[10],11,[12]
14,[18],[19]	13,14,15,16	31.2,[32],32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],[24]	11,[12],[13]	10,11,12	17,19,20,27.2	6,[8]	8,[10],12
16,[17],18	11	17	19		

4ZKJ8E — Investigator® 24plex QS

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,[11],13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11				

62443A — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
[12],[15],16	17,[18],20	10,11,[14]	15,[16],17	11,[12]	
10,[11],13	12,[13],14	14,[15],[18]	16,19,20,[23]	8,9,11	10,11,[12]
14,18,[19]	13,14,[15],[16]	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],24	11,[12],[13]	10,11,12		6,[8]	8,[10],12
16,[17],18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

Item						
69U8LD	PowerPlex® Fusion 6C					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	Not Tested
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19	Not Tested	
6FKYH7	PowerPlex® Fusion					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12		6,8	8,10,12
	16,17,18	11				
6JR9XH	GlobalFiler™					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
6ZCYWG	GlobalFiler™ (STRmix)					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
78AZNU	GlobalFiler™					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
79MF73	GlobalFiler™					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
7DD4C8	GlobalFiler™					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

Item						
7EU268	GlobalFiler™ (STRmix)					
	[12],[15],16	17,[18],20	[10],11,[14]	15,[16],[17]	11,[12]	
4e	10,[11],13	12,[13],14	14,[15],[18]	16,19,20,[23]	8,9,11	[10],11,[12]
	14,18,[19]	13,14,15,16	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
	21,[23],24			17,[19],[20],27.2	6,[8]	8,[10],[12]
	16,[17],18	11			2	
888JE3	GlobalFiler™					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
8B8RHD	GlobalFiler™ (STRmix)					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
8DQTDY	GlobalFiler™ (STRmix)					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
8GUNW3	GlobalFiler™					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
8HMKLW	PowerPlex® Fusion 6C (STRmix)					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		
8MYDN9	PowerPlex® Fusion 6C (STRmix)					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
8P8Q7A	PowerPlex® Fusion 6C (STRmix)					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		
8RRR2W	PowerPlex® Fusion 6C (STRmix)					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		
8T74RE	GlobalFiler™ (STRmix)					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
8XMCFD	GlobalFiler™ (STRmix)					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
99DKD7	PowerPlex® Fusion 6C					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		
9B6G3Z	GlobalFiler™					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
9BXL8T	PowerPlex® Fusion 6C (STRmix)					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

9JV37D — GlobalFiler™ (STRmix)

4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	

A9T4X4 — PowerPlex® Fusion 6C (STRmix V2.5.11)

4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

ACC6RQ — PowerPlex® Fusion 6c (STRmix)

4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

AGJVVW — GlobalFiler™ (STRmix)

4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	

APVVP8 — GlobalFiler™ (STRmix)

4e	[12],[15],16	17,18,[20]	[10],11,[14]	15,[16],[17]	11,[12]	
	10,[11],13	12,[13],[14]	14,[15],[18]	16,19,20,23	8,9,11	[10],11,[12]
	14,[18],[19]	13,14,15,16	31.2,[32],32.2	12,15,[16]	X,Y	[10],11,[13]
	21,[23],[24]			17,19,20,27.2	6,[8]	8,[10],12
	16,[17],18	11			2	

ATWWRP — PowerPlex® Fusion 6C (STRmix)

4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

ATZ288 — Identifiler® Plus

4e		17,18,20		15,16,17	11,12	
	10,11,13	12,13,14			8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2		X,Y	10,11,13
	21,23,24				6,8	8,10,12
	16,17,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

AV63EC GlobalFiler™ (STRmix v2.7)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

(Item: 4e)

AY3N39 GlobalFiler™ (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

(Item: 4e)

B6DWA6 PowerPlex® 21 (STRmix v2.8)

12,15,16	17,18,20		15,16,17	11,12	12,14,17,19
10,11,13	12,13,14		16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2		X,Y	10,11,13
21,23,24	11,12,13	10,11,12		6,8	8,10,12
16,17,18					

(Item: 4e)

B8UD6U PowerPlex® Fusion 6C (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

(Item: 4e)

B8WX4Q PowerPlex® Fusion 6C (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

(Item: 4e)

BERZ73 GlobalFiler™

[12],[15],16	17,[18],[20]	[10],11,[14]	15,[16],[17]	11,[12]	
10,[11],13	12,[13],[14]	14,[15],[18]	[16],19,20,[23]	8,9,11	10,11,[12]
14,18,[19]	13,14,15,16	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],[24]			17,[19],[20],27.2	6,[8]	8,[10],12
16,[17],18	11			2	

(Item: 4e)

BJQDTR PowerPlex® Fusion 6C (STRMix 2.6.3)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

(Item: 4e)

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

BKGC8Q   GlobalFiler™ (TrueAllele)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	

BQQJXV   PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

BR2LJT   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	

C2MAR2   PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

C3E6GV   PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

CBUNXA   GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	

CLPBE4   PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,[18],[20]	10,11,[14]	15,16,[17]	11,[12]	
	10,[11],13	12,[13],14	14,[15],[18]	16,19,20,23	8,9,11	[10],11,12
	14,18,19	13,14,15,16	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
	21,23,24	11,[12],[13]	10,11,12		6,[8]	8,[10],12
	16,17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

CPQ4X3 — PowerPlex® 21 — Item 4e

D1/D7/D18/FGA/vWA	D2S1338/D8/D19/PentaD/DYS391	D2S441/D10/D21/PentaE/DYS570	D3/D12/D22/SE33/DYS576	D5/D13/Amelo/TH01/Y Indel	D6/D16/CSF1PO/TPOX
12,15,16	17,18,20		15,16,17	11,12	12,14,17,19
10,11,13	12,13,14		16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2		X,Y	10,11,13
21,23,24	11,12,13	10,11,12		6,8	8,10,12
16,17,18					

CQ6J34 — GlobalFiler™ (STRmix) — Item 4e

[12],[15],16	17,18,[20]	[10],11,[14]	15,[16],[17]	11,[12]	
10,[11],[13]	12,[13],[14]	14,[15],[18]	16,19,20,[23]	8,[9],11	[10],11,[12]
14,18,[19]	13,14,15,16	31.2,32,32.2	[12],15,16	X,[Y]	[10],11,[13]
21,[23],[24]			17,19,[20],27.2	6,[8]	8,[10],[12]
[16],[17],18	11			2	

CTB6TP — PowerPlex® Fusion 6C (STRMix) — Item 4e

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

CWAAVA — GlobalFiler™ (STRmix) — Item 4e

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

DHNGJ9 — GlobalFiler™ (STRmix) — Item 4e

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

DJFJZW — GlobalFiler™ — Item 4e

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

DKEFX7 — PowerPlex® Fusion — Item 4e

12,15,16	17,18,[20]	[10],11,14	15,16,[17]	11,12	
10,11,[13]	12,13,[14]	14,15,18	16,[19],[20],23	[8],[9],11,11	[10],11,12
14,[18],19	[13],[14],15,16	31.2,31.2,[32],[32.2]	12,15,16	X,Y	10,[11],13
21,23,[24]	11,12,13	[10],12,12		6,8	8,10,[12]
[16],17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

DRC87Z — PowerPlex® Fusion 6C (STRmix V2.5.11)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

DU44VU — PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

DUYZT3 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	[12],[15],16	17,[18],[20]	[10],11,[14]	15,[16],[17]	11,[12]	
	10,[11],[13]	12,[13],14	14,[15],[18]	16,19,20,[23]	8,9,11	10,11,[12]
	14,18,[19]	13,14,15,16	31.2,[32],32.2	12,15,[16]	X,[Y]	[10],11,[13]
	21,[23],[24]			17,[19],20,27.2	6,[8]	8,[10],12
	[16],[17],18	11			2	

E3TEHU — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	

E9YYFZ — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	

EDAX3Q — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

EFBA9Q — PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

EJVXAQ GlobalFiler™ (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

ER88J6 PowerPlex® Fusion 6C

[12],[15],16	17,[18],[20]	10,11,[14]	15,[16],[17]	11,[12]	
10,[11],13	12,[13],[14]	14,[15],[18]	16,19,20,23	8,9,11	[10],11,[12]
14,[18],[19]	13,14,15,[16]	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],[24]	11,[12],[13]	10,11,12	17,19,20,27.2	6,[8]	8,[10],12
16,[17],18	11	17	19		

EUR9DR GlobalFiler™ (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

EV8HE6 PowerPlex® Fusion 6C

[12],[15],16	17,[18],[20]	10,11,[14]	15,[16],[17]	11,[12]	
10,[11],[13]	12,[13],[14]	14,[15],[18]	16,19,20,23	8,9,11	[10],11,[12]
14,[18],[19]	13,14,15,16	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],[24]	11,[12],[13]	10,11,12	17,19,[20],27.2	6,[8]	8,[10],12
16,[17],18	11	17	19		

EXRJAR GlobalFiler™ (STRMix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

F2UHKK PowerPlex® Fusion 6C (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

FDJEJW PowerPlex® Fusion 6C (STRmix)

[12],[15],16	17,[18],20	[10],11,[14]	15,[16],17	11,[12]	
10,[11],[13]	12,[13],14	14,[15],[18]	16,19,20,[23]	8,9,[11]	[10],11,[12]
14,18,[19]	13,14,[15],[16]	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],[24]	11,[12],[13]	10,11,[12]	17,[19],20,27.2	6,[8]	8,[10],12
16,17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

FJQ6M3 — Investigator® 24plex QS — 4e

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
[12],[15],16	17,[18],[20]	[10],11,[14]	15,[16],[17]	11,[12]	
10,[11],13	12,[13],14	14,[15],[18]	16,19,20,[23]	8,9,11	[10],11,[12]
14,[18],[19]	13,14,15,16	31.2,32,[32.2]	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],[24]			17,19,20,27.2	6,[8]	8,[10],[12]
[16],[17],18	11				

FL3PNQ — PowerPlex® Fusion 6C — 4e

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

FMUN2N — GlobalFiler™ — 4e

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

FWYMKX — PowerPlex® Fusion 5C — 4e

[12],[15],16	17,[18],[20]	10,11,[14]	15,[16],17	11,[12]	
10,[11],13	12,13,14	14,[15],[18]	16,19,20,23	8,9,11	10,11,[12]
14,18,[19]	13,14,15,16	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,23,24	11,[12],[13]	10,11,12		6,[8]	8,[10],12
16,[17],18	11				

FZGYNU — GlobalFiler™ — 4e

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

G4AMDZ — PowerPlex® Fusion — 4e

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12		6,8	8,10,12
16,17,18	11				

GA2LW2 — PowerPlex® Fusion 6C — 4e

[12],[15],16	17,[18],[20]	10,11,[14]	15,[16],[17]	11,[12]	
10,[11],13	12,[13],[14]	14,[15],[18]	16,19,20,23	8,9,11	[10],11,[12]
14,18,[19]	13,14,15,16	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],[24]	11,[12],[13]	10,11,12	17,19,20,27.2	6,[8]	8,[10],12
[16],[17],18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

GCQ34N — PowerPlex® Fusion 6C, GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,X,X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19	2	

GU9UBZ — PowerPlex® Fusion 6c (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

GUMGMM — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

H482HJ — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

HBQBUM — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

HMKU9T — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

HTQE7X — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
[12],[15],16	17,[18],[20]	10,11,[14]	15,[16],[17]	11,[12]	
10,[11],13	12,[13],[14]	14,[15],[18]	16,19,20,23	8,9,11	[10],11,[12]
14,[18],[19]	13,14,15,16	31.2,32,[32.2]	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],[24]	11,[12],[13]	10,11,12	17,19,20,27.2	6,[8]	8,10,12
16,[17],18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

HVHDKV GlobalFiler™ Plus

4e					
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

HVWW6T GlobalFiler™

4e					
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

HYVDGM PowerPlex® Fusion 6C (STRmix v 2.6.3)

4e					
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

J3B67V GlobalFiler™

4e					
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

J6J7GU PowerPlex® Fusion 6C (STRmix)

4e					
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

J8B37M PowerPlex® Fusion 6C

4e					
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

JABBBX PowerPlex® Fusion 6C

4e					
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

JB4DQL   PowerPlex® fuison 6c

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

JB4FFQ   GlobalFiler™

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

JDVC6K   PowerPlex® Fusion 6C (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

JPQC8N   PowerPlex® Fusion 6C (STRmix 2.6.1)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

JW6K9P   GlobalFiler™

[12,15],16	17,[18,20]	[10],11,[14]	15,16,[17]	11,[12]	
10,[11],13	12,[13,14]	14,[15,18]	[16],19,20,23	8,9,11	[10],11,[12]
14,[18,19]	13,14,15,16	31.2,[32],32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,23,[24]			17,19,20,27.2	6,[8]	8,[10,12]
16,[17],18	11			2	

K47UEH   GlobalFiler™

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

K4JPH2   GlobalFiler™ (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

K9YX72 GlobalFiler™

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

(4e)

KJE23Y PowerPlex® Fusion 6C (STRmix v2.5.11)

[12],[15],16	17,[18],[20]	[10],11,[14]	15,[16],17	11,[12]	
10,[11],13	12,[13],[14]	14,[15],[18]	16,19,20,[23]	8,9,11	10,11,[12]
14,18,[19]	13,14,15,[16]	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],[24]	11,[12],[13]	10,11,12	17,[19],20,27.2	6,[8]	8,[10],12
[16],[17],18	11	17	19		

(4e)

KR8AMP GlobalFiler™

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

(4e)

KTY7CJ PowerPlex® Fusion 6C (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

(4e)

KWYG7Y PowerPlex® Fusion 6C (STRmix)

[12],[15],16	17,[18],[20]	10,11,[14]	15,[16],[17]	11,[12]	
10,[11],[13]	12,[13],[14]	14,[15],[18]	16,19,20,23	8,9,11	[10],11,[12]
14,[18],[19]	13,14,15,16	31.2,[32],32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,23,[24]	11,[12],[13]	10,11,12	17,19,[20],27.2	6,[8]	8,[10],[12]
16,17,18	11	17	19		

(4e)

L6R9QX PowerPlex® Fusion 5C

[12],[15],16	17,18,[20]	10,11,[14]	15,16,17	11,[12]	
10,[11],13	12,[13],14	14,[15],[18]	16,19,20,23	8,9,11	10,11,12
14,18,[19]	13,14,15,16	31.2,[32],32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],24	11,[12],[13]	10,11,12		6,[8]	8,[10],12
16,17,18	11				

(4e)

LEGZDP PowerPlex® Fusion

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12		6,8	8,10,12
16,17,18	11				

(4e)

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

LMR2YQ — PowerPlex® Fusion

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12		6,8	8,10,12
16,17,18	11				

M7JDCH — GlobalFiler™

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

MGLXCP — GlobalFiler™

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

MHUWKC — PowerPlex® Fusion 6C (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

MWR89H — GlobalFiler™

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

MWUPEU — PowerPlex® Fusion 6C (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

MZEQAF — PowerPlex® Fusion 6C (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,11,12
16,17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656** / **D7S820** / **D18S51** / **FGA** / **vWA**	**D2S1338** / **D8S1179** / **D19S433** / **Penta D** / **DYS391**	**D2S441** / **D10S1248** / **D21S11** / **Penta E** / **DYS570**	**D3S1358** / **D12S391** / **D22S1045** / **SE33** / **DYS576**	**D5S818** / **D13S317** / **Amelogenin** / **TH01** / **Y Indel**	**D6S1043** / **D16S539** / **CSF1PO** / **TPOX**

Item 4e - STR Results

N3JN9F — GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	

N88HVF — PowerPlex® Fusion 6C (STRmix)

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

NDFRBN — PowerPlex® Fusion 6C

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

NE8NYH — PowerPlex® Fusion 6C

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

NET2NV — PowerPlex® Fusion 5C

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12		6,8	8,10,12
	16,17,18	11				

NKDBMR — PowerPlex® Fusion 6C

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	[12],[15],16	17,[18],[20]	10,11,[14]	15,[16],[17]	11,[12]	
	10,[11],13	12,[13],14	14,[15],[18]	16,19,20,23	8,9,11	[10],11,[12]
	14,18,[19]	13,14,15,16	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
	21,[23],[24]	11,[12],[13]	10,11,12	17,19,20,27.2	6,[8]	8,[10],12
	[16],17,18	11	17	19		

NKTU8P — GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

NP93VN — PowerPlex® Fusion 5C

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	[12],[15],16	17,[18],[20]	10,11,[14]	15,16,17	11,[12]	
	10,[11],13	12,[13],[14]	14,[15],[18]	16,19,20,23	8,9,11	10,11,[12]
	14,[18],[19]	13,14,15,16	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
	21,23,[24]	11,[12],[13]	10,11,12		6,[8]	8,[10],12
	16,[17],18	11				

NRXKYV — PowerPlex® Fusion

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,11,[12]	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,31.2,[32],[32.2]	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,12		6,8	8,10,12
	16,17,18	11				

NWDTMU — PowerPlex® Fusion 6C

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

NYXUGG — GlobalFiler™ (STRMix)

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	12,15,16	17,18	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10
	16,17,18	11			2	

P6FL7L — GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	

PB4CGM — GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	

PENDBA — PowerPlex® Fusion 6C (STRmix)

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

PGUUQT	GlobalFiler™ (STRmix)					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
PVF2UK	GlobalFiler™					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
PYBTZW	GlobalFiler™ (STRmix)					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
QL6Z9K	GlobalFiler™					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
QXV32C	PowerPlex® Fusion 6C (STRmix)					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		
R76KLV	GlobalFiler™ (STRmix)					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
R7LUCB	PowerPlex® Fusion 5C					
	[12],[15],16	17,18,20	10,11,[14]	15,16,17	11,[12]	
4e	10,11,13	12,13,14	14,[15],[18]	16,19,20,23	8,9,11	10,11,12
	14,18,[19]	13,14,15,16	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
	21,23,24	11,[12],[13]	10,11,12		6,[8]	8,[10],12
	16,17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

REJFDJ	GlobalFiler™					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
RK89FB	GlobalFiler™					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
RQNYNJ	PowerPlex® Fusion					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12		6,8	8,10,12
	16,17,18	11				
RV47CH	GlobalFiler™					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
RWF78R	PowerPlex® Fusion 5C					
	[12],[15],16	17,18,20	10,11,[14]	15,16,[17]	11,[12]	
4e	10,[11],13	12,13,[14]	14,[15],[18]	16,19,20,23	8,9,11	[10],11,[12]
	14,18,19	13,14,15,16	31.2,32,[32.2]	[12],15,[16]	X,[Y]	[10],11,[13]
	21,[23],[24]	11,[12],[13]	10,11,12		6,[8]	8,[10],[12]
	16,17,18	11				
T37LNC	GlobalFiler™					
	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	
TA2NQM	PowerPlex® Fusion					
	12,15,16	17,18,[20]	10,11,14	15,16,[17]	11,12	
4e	10,11,13	12,13,14	14,15,18	16,19,20,23	[8,9],11,11	10,11,12
	14,18,19	13,14,15,16	31.2,31.2,[32,32.2]	12,15,16	X,Y	10,11,13
	21,23,[24]	11,12,13	[10,11],12,12		6,8	8,10,12
	16,17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

TCLPKA — PowerPlex® Fusion 6C (STRmix 2.6.3)   *Item 4e*

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

TJQCMB — GlobalFiler™ (STRmix)   *Item 4e*

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

TMQMGP — Investigator® 24plex QS   *Item 4e*

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11				

TU4QDQ — PowerPlex® Fusion 6C   *Item 4e*

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
[12],[15],16	17,[18],[20]	10,11,[14]	15,[16],[17]	11,[12]	
10,[11],[13]	12,[13],[14]	14,[15],[18]	16,19,20,23	8,[9],11	10,11,[12]
14,[18],[19]	13,14,15,16	31.2,[32],[32.2]	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],[24]	11,[12],[13]	10,11,12	17,19,20,27.2	6,[8]	8,[10],[12]
[16],17,18	11	17	19		

U6LF3N — PowerPlex® Fusion 6C (STRmix)   *Item 4e*

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

U7G2PM — PowerPlex® Fusion   *Item 4e*

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12		6,8	8,10,12
16,17,18	11				

U8RXZJ — PowerPlex® Fusion 6C (STRmix v2.5.11)   *Item 4e*

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

UNX9HB — GlobalFiler™ (STRMIX)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

UVEX4Q — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

V6D3JJ — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
[12],[15],16	17,[18],[20]	10,11,[14]	15,[16],[17]	11,[12]	
10,[11],13	12,[13],[14]	14,[15],[18]	16,19,20,[23]	8,9,11	[10],11,[12]
14,[18],[19]	13,14,15,16	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],[24]	11,[12],[13]	10,11,12	17,19,20,27.2	6,[8]	8,[10],12
16,[17],18	11	17	19		

VVCD9A — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12		6,8	8,10,12
16,17,18	11				

WADR4K — Identifiler® Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,18,20		15,16,17	11,12	
10,11,13	12,13,14			8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2		X,Y	10,11,13
21,23,24				6,8	8,10,12
16,17,18					

WCCZWE — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

WGR9KE — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

WHHKUJ — GlobalFiler™

[12],[15],16	17,18,[20]	[10],11,[14]	15,[16],[17]	11,[12]	
10,[11],[13]	12,[13],14	14,[15],[18]	16,19,20,[23]	[8],9,11	10,11,[12]
14,[18],[19]	13,14,15,16	31.2,32,[32.2]	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],24			17,19,[20],27.2	6,[8]	8,[10],12
[16],[17],18	11			2	

WL69G6 — GlobalFiler™

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

WW94ZB — PowerPlex® Fusion 6C (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

WZXUVK — PowerPlex® Fusion 6C

[12],[15],16	17,[18],[20]	10,11,[14]	15,[16],[17]	11,[12]	
10,[11],[13]	12,[13],[14]	14,[15],[18]	16,19,20,[23]	8,9,11	[10],11,[12]
14,[18],[19]	13,14,[15],[16]	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
21,[23],[24]	11,[12],[13]	10,11,12	17,[19],[20],27.2	6,[8]	8,[10],12
16,17,18	11	17	19		

X3M9AM — GlobalFiler™ (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

X78A49 — GlobalFiler™ (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24			17,19,20,27.2	6,8	8,10,12
16,17,18	11			2	

XBD4Y4 — PowerPlex® Fusion 6C (STRmix)

12,15,16	17,18,20	10,11,14	15,16,17	11,12	
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
16,17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

XJTTKJ — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

XR9C6H

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12		6,8	8,10,12
	16,17,18	11				

XUTDY6 — PowerPlex® Fusion 6C (STRMix v 2.6.3)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

XWHRE8 — PowerPlex® Fusion 6C (STRmix v2.6)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

XXTL4F — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	[12],[15],16	17,[18],[20]	10,11,[14]	15,[16],17	11,[12]	
	10,[11],[13]	12,[13],14	14,[15],[18]	[16],19,20,[23]	8,9,11	10,11,[12]
	14,18,[19]	13,14,15,[16]	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
	21,[23],24			17,19,[20],27.2	6,[8]	8,[10],12
	16,[17],18	11			2	

XYKKHD — PowerPlex® Fusion 5C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12		6,8	8,10,12
	16,17,18	11				

Y7GVQF — Investigator® 24plex QS

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	[12],[15],16	17,[18],[20]	10,11,[14]	15,[16],17	11,[12]	
	10,[11],13	12,[13],14	14,[15],[18]	16,19,20,[23]	8,9,11	10,11,[12]
	14,18,[19]	13,14,15,[16]	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
	21,[23],24			17,[19],20,27.2	6,[8]	8,[10],[12]
	16,[17],18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

Y7MYT8 PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

YBTKRC GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11			2	

YERXCF GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	[12],[15],16	17,[18],[20]	10,11,[14]	15,[16],[17]	11,[12]	
	10,[11],13	12,[13],14	14,[15],[18]	[16],19,20,[23]	8,9,11	10,11,[12]
	14,18,[19]	13,14,[15],16	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
	21,[23],[24]			17,[19],[20],27.2	6,[8]	8,[10],12
	16,[17],18	11			2	

YMT4GJ PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12	17,19,20,27.2	6,8	8,10,12
	16,17,18	11	17	19		

YR3JQ8 PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	[12,15],16	17,[18],20	10,11,[14]	15,16,17	11,[12]	
	10,[11],13	12,[13],14	14,[15,18]	16,19,20,23	8,9,[11]	10,11,[12]
	14,18,[19]	13,14,[15,16]	31.2,32,32.2	[12],15,[16]	X,[Y]	[10],11,[13]
	21,[23],24	11,[12,13]	10,11,[12]		6,[8]	8,[10],12
	16,17,18	11				

YWXBWJ Investigator® 24plex QS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24			17,19,20,27.2	6,8	8,10,12
	16,17,18	11				

YX96NC PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,15,16	17,18,20	10,11,14	15,16,17	11,12	
	10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
	14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
	21,23,24	11,12,13	10,11,12		6,8	8,10,12
	16,17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4e - STR Results

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX

YXP8KD — GlobalFiler™ (4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
21,23,24			17,19,20,27.2	6,8	8,10,12
vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	
16,17,18	11			2	

Z7JY7C — GlobalFiler™ (4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
21,23,24			17,19,20,27.2	6,8	8,10,12
vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	
16,17,18	11			2	

ZTT8FG — PowerPlex® Fusion (4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	10,11,14	15,16,17	11,12	
D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
10,11,13	12,13,14	14,15,18	16,19,20,23	8,9,11	10,11,12
D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
14,18,19	13,14,15,16	31.2,32,32.2	12,15,16	X,Y	10,11,13
FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
21,23,24	11,12,13	10,11,12		6,8	8,10,12
vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	
16,17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

23CVV2 — GlobalFiler™ (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

2NDYRG — GlobalFiler™ (STRmix) (4sp)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

2V7GXC — GlobalFiler™ (4sp)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

2VF4M8 — GlobalFiler™ (4sp)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

37TMK9 — PowerPlex® Fusion 6C (STRmix) (4sp)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

39UFNE — Investigator® 24plex QS (4sp)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11				

3ABDXD — Identifiler® Plus (4sp)

	17,18		15,16	11,12	
10,11	12,13			11,11	11,12
14,19	15,16	31.2,31.2		X,Y	10,13
21,23				6,8	8,10
17,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

3D8E4E — PowerPlex® Fusion (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

3DANTD — Identifiler® Plus (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	17,18		15,16	11,12	
10,11	12,13			11,11	11,12
14,19	15,16	31.2,31.2		X,Y	10,13
21,23				6,8	8,10
17,18					

3GNTE7 — GlobalFiler™ (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

3MVECC — GlobalFiler™ (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

3PZY2W — PowerPlex® Fusion 6C (STRMix) (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

3QYVY8 — GlobalFiler™ (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

3Y7XXD — PowerPlex® Fusion 5C (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12		6,8	8,10
17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
477CLZ	PowerPlex® Fusion 5C					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				
47Z9J9	GlobalFiler™ (STRmix)					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	
49T683	PowerPlex® Fusion 5C					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				
4FPWFW	PowerPlex® Fusion 6C (STRmix)					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		
4GJQBF	PowerPlex® Fusion 6C (STRmix)					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		
4ZKJ8E	Investigator® 24plex QS					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11				
62443A	PowerPlex® Fusion 5C					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12		6,8	8,10
	17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

69U8LD — PowerPlex® Fusion 6C

	D1S1656 / etc					
4sp	12,15	17,18	11,14	15,16	11,12	Not Tested
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19	Not Tested	

6FKYH7 — PowerPlex® Fusion

4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				

6JR9XH — GlobalFiler™

4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

6ZCYWG — GlobalFiler™ (STRmix)

4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

78AZNU — GlobalFiler™

4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

79MF73 — GlobalFiler™

4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

7DD4C8 — GlobalFiler™

4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

7EU268 — GlobalFiler™ (STRmix)

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

888JE3 — GlobalFiler™

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

8B8RHD — GlobalFiler™ (STRmix)

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

8DQTDY — GlobalFiler™ (STRmix)

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

8GUNW3 — GlobalFiler™

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

8HMKLW — PowerPlex® Fusion 6C (STRmix)

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

8MYDN9 — PowerPlex® Fusion 6C (STRmix)

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

8P8Q7A PowerPlex® Fusion 6C (STRmix)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

8RRR2W PowerPlex® Fusion 6C (STRmix)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

8T74RE GlobalFiler™ (STRmix)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

8XMCFD GlobalFiler™ (STRmix)

12,15	17,18	11,14	15,16,17	11,12	
10,11	12,13	15,18	16,23	9,11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10,12
17,18	11			2	

99DKD7 PowerPlex® Fusion 6C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

9B6G3Z GlobalFiler™

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

9BXL8T PowerPlex® Fusion 6C (STRmix)

12,15,16	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,11,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

9JV37D GlobalFiler™ (STRmix) — 4sp

D1S1656 / etc.					
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

A9T4X4 PowerPlex® Fusion 6C (STRmix V2.5.11) — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

ACC6RQ PowerPlex® Fusion 6c (STRmix) — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

AGJVVW GlobalFiler™ (STRmix) — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

APVVP8 GlobalFiler™ (STRmix) — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

ATWWRP PowerPlex® Fusion 6C (STRmix) — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

ATZ288 Identifiler® Plus — 4sp

	17,18		15,16	11,12	
10,11	12,13			11,11	11,12
14,19	15,16	31.2,31.2		X,Y	10,13
21,23				6,8	8,10
17,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

AV63EC — GlobalFiler™ (STRmix v2.7)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

AY3N39 — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

B6DWA6 — PowerPlex® 21 (STRmix v2.8)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18		15,16	11,12	12,14
10,11	12,13		16,23	11,11	11,12
14,19	15,16	31.2,31.2		X,Y	10,13
21,23	12,13	12,12		6,8	8,10
17,18					

B8UD6U — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

B8WX4Q — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	10,12	19,20	6,8	8,10
17,18	11	17	19		

BERZ73 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

BJQDTR — PowerPlex® Fusion 6C (STRMix 2.6.3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

BKGC8Q — GlobalFiler™ (TrueAllele)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

BQQJXV — PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		

BR2LJT — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

C2MAR2 — PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

C3E6GV — PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		

CBUNXA — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

CLPBE4 — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12		6,8	8,10
	17,18	11				

TABLE 1

Item / WebCode	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX

Amplification Kits (Probabilistic Genotyping Software)

Item 4sp - STR Results

CPQ4X3 — PowerPlex® 21 (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18		15,16	11,12	12,14
10,11	12,13		16,23	11,11	11,12
14,19	15,16	31.2,31.2		X,Y	10,13
21,23	12,13	12,12		6,8	8,10
17,18					

CQ6J34 — GlobalFiler™ (STRmix) (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

CTB6TP — PowerPlex® Fusion 6C (STRMix) (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

CWAAVA — GlobalFiler™ (STRmix) (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

DHNGJ9 — GlobalFiler™ (STRmix) (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

DJFJZW — GlobalFiler™ (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

DKEFX7 — PowerPlex® Fusion (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12		6,8	8,10
17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

DRC87Z — PowerPlex® Fusion 6C (STRmix V2.5.11)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

DU44VU — PowerPlex® Fusion 6C (STRmix)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

DUYZT3 — GlobalFiler™

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

E3TEHU — GlobalFiler™

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

E9YYFZ — GlobalFiler™

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

EDAX3Q — PowerPlex® Fusion 6C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

EFBA9Q — PowerPlex® Fusion 6C (STRmix)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

EJVXAQ GlobalFiler™ (STRmix) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

ER88J6 PowerPlex® Fusion 6C — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

EUR9DR GlobalFiler™ (STRmix) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	13,15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

EV8HE6 PowerPlex® Fusion 6C — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

EXRJAR GlobalFiler™ (STRMix) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18	11,14	15,16,17	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			17,19,20	6,8	8,10
17,18	11			2	

F2UHKK PowerPlex® Fusion 6C (STRmix) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15,16	17,18,20	11,14	15,16,17	11,12	
10,11,13	12,13,14	15,18	16,23	11	11,12
14,19	13,15,16	31.2	12,16	X,Y	10,11,13
21,23,24	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

FDJEJW PowerPlex® Fusion 6C (STRmix) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

FJQ6M3 — Investigator® 24plex QS (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11				

FL3PNQ — PowerPlex® Fusion 6C (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

FMUN2N — GlobalFiler™ (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

FWYMKX — PowerPlex® Fusion 5C (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12		6,8	8,10
17,18	11				

FZGYNU — GlobalFiler™ (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

G4AMDZ — PowerPlex® Fusion (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

GA2LW2 — PowerPlex® Fusion 6C (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
GCQ34N	PowerPlex® Fusion 6C, GlobalFiler™					
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19	2	
GU9UBZ	PowerPlex® Fusion 6c (STRmix)					
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		
GUMGMM	GlobalFiler™					
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	
H482HJ	PowerPlex® Fusion 6C (STRmix)					
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		
HBQBUM	PowerPlex® Fusion 6C (STRmix)					
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		
HMKU9T	GlobalFiler™					
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	
HTQE7X	PowerPlex® Fusion 6C (STRmix)					
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

HVHDKV — GlobalFiler™ Plus — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

HVWW6T — GlobalFiler™ — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

HYVDGM — PowerPlex® Fusion 6C (STRmix v 2.6.3) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

J3B67V — GlobalFiler™ — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

J6J7GU — PowerPlex® Fusion 6C (STRmix) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

J8B37M — PowerPlex® Fusion 6C — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

JABBBX — PowerPlex® Fusion 6C — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

JB4DQL — PowerPlex® fuison 6c (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

JB4FFQ — GlobalFiler™ (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

JDVC6K — PowerPlex® Fusion 6C (STRmix) (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

JPQC8N — PowerPlex® Fusion 6C (STRmix 2.6.1) (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

JW6K9P — GlobalFiler™ (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

K47UEH — GlobalFiler™ (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

K4JPH2 — GlobalFiler™ (STRmix) (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

K9YX72 — GlobalFiler™ — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

KJE23Y — PowerPlex® Fusion 6C (STRmix v2.5.11) — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

KR8AMP — GlobalFiler™ — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

KTY7CJ — PowerPlex® Fusion 6C (STRmix) — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

KWYG7Y — PowerPlex® Fusion 6C (STRmix) — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

L6R9QX — PowerPlex® Fusion 5C — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12		6,8	8,10
17,18	11				

LEGZDP — PowerPlex® Fusion — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

LMR2YQ — PowerPlex® Fusion — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

M7JDCH — GlobalFiler™ — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

MGLXCP — GlobalFiler™ — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

MHUWKC — PowerPlex® Fusion 6C (STRmix) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

MWR89H — GlobalFiler™ — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

MWUPEU — PowerPlex® Fusion 6C (STRmix) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

MZEQAF — PowerPlex® Fusion 6C (STRmix) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

N3JN9F — GlobalFiler™ — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

N88HVF — PowerPlex® Fusion 6C (STRmix) — 4sp

12,15,16	17,18	11,14	15,16	11,12	
10,11	12,13,14	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,11,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

NDFRBN — PowerPlex® Fusion 6C — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

NE8NYH — PowerPlex® Fusion 6C — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

NET2NV — PowerPlex® Fusion 5C — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

NKDBMR — PowerPlex® Fusion 6C — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

NKTU8P — GlobalFiler™ — 4sp

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

NP93VN — PowerPlex® Fusion 5C (4sp)

	D1	D2	D3	D4	D5	D6
	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12		6,8	8,10
	17,18	11				

NRXKYV — PowerPlex® Fusion (4sp)

	D1	D2	D3	D4	D5	D6
	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12		6,8	8,10
	17,18	11				

NWDTMU — PowerPlex® Fusion 6C (4sp)

	D1	D2	D3	D4	D5	D6
	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

NYXUGG — GlobalFiler™ (STRMix) (4sp)

	D1	D2	D3	D4	D5	D6
	12,15	17,18,20	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2,32.2	12,16	X,Y	10,13
	21,23			19,20,27.2	6,8	8,10
	17,18	11			2	

P6FL7L — GlobalFiler™ (4sp)

	D1	D2	D3	D4	D5	D6
	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

PB4CGM — GlobalFiler™ (4sp)

	D1	D2	D3	D4	D5	D6
	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

PENDBA — PowerPlex® Fusion 6C (STRmix) (4sp)

	D1	D2	D3	D4	D5	D6
	12,15,16	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	9,11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23,24	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		

TABLE 1

Item / WebCode	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Amplification Kits (Probabilistic Genotyping Software)	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

PGUUQT — GlobalFiler™ (STRmix) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

PVF2UK — GlobalFiler™ — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

PYBTZW — GlobalFiler™ (STRmix) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

QL6Z9K — GlobalFiler™ — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

QXV32C — PowerPlex® Fusion 6C (STRmix) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

R76KLV — GlobalFiler™ (STRmix) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

R7LUCB — PowerPlex® Fusion 5C — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

REJFDJ	GlobalFiler™					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	
RK89FB	GlobalFiler™					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	
RQNYNJ	PowerPlex® Fusion					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				
RV47CH	GlobalFiler™					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	
RWF78R	PowerPlex® Fusion 5C					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12		6,8	8,10
	17,18	11				
T37LNC	GlobalFiler™					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	
TA2NQM	PowerPlex® Fusion					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12		6,8	8,10
	17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

TCLPKA — PowerPlex® Fusion 6C (STRmix 2.6.3)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		

TJQCMB — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

TMQMGP — Investigator® 24plex QS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11				

TU4QDQ — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

U6LF3N — PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

U7G2PM — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				

U8RXZJ — PowerPlex® Fusion 6C (STRmix v2.5.11)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	12,15	17,18,20	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

UNX9HB	GlobalFiler™ (STRMIX)					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	
UVEX4Q	GlobalFiler™					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			[17],19,20	6,8	8,10
	17,18	11			2	
V6D3JJ	PowerPlex® Fusion 6C (STRmix)					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		
VVCD9A	PowerPlex® Fusion 5C					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				
WADR4K	Identifiler® Plus					
		17,18		15,16	11,12	
4sp	10,11	12,13			11,11	11,12
	14,19	15,16	31.2,31.2		X,Y	10,13
	21,23				6,8	8,10
	16,17,18					
WCCZWE	GlobalFiler™					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	
WGR9KE	GlobalFiler™					
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

WHHKUJ — GlobalFiler™

	D1/D7/D18/FGA/vWA	D2S1338/D8/D19/PentaD/DYS391	D2S441/D10/D21/PentaE/DYS570	D3/D12/D22/SE33/DYS576	D5/D13/Amel/TH01/YIndel	D6/D16/CSF/TPOX
4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13,[14]	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,[32.2]	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

WL69G6 — GlobalFiler™

4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

WW94ZB — PowerPlex® Fusion 6C (STRmix)

4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		

WZXUVK — PowerPlex® Fusion 6C

4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

X3M9AM — GlobalFiler™ (STRmix)

4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

X78A49 — GlobalFiler™ (STRmix)

4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

XBD4Y4 — PowerPlex® Fusion 6C (STRmix)

4sp	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

XJTTKJ — PowerPlex® Fusion 6C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12	19,20	6,8	8,10
17,18	11	17	19		

XR9C6H

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23	12,13	12,12		6,8	8,10
17,18	11				

XUTDY6 — PowerPlex® Fusion 6C (STRMix v 2.6.3)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

XWHRE8 — PowerPlex® Fusion 6C (STRmix v2.6)

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12	19,20	6,8	8,10
17,18	11	17	19		

XXTL4F — GlobalFiler™

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,[Y]	10,13
21,23			19,20	6,8	8,10
17,18	11			2	

XYKKHD — PowerPlex® Fusion 5C

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11	11,12
14,19	15,16	31.2	12,16	X,Y	10,13
21,23	12,13	12		6,8	8,10
17,18	11				

Y7GVQF — Investigator® 24plex QS

12,15	17,18	11,14	15,16	11,12	
10,11	12,13	15,18	16,23	11,11	11,12
14,19	15,16	31.2,31.2	12,16	X,Y	10,13
21,23			19,20	6,8	8,10
17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item 4sp - STR Results

Y7MYT8 PowerPlex® Fusion 6C (STRmix)

4sp						
	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12	19,20	6,8	8,10
	17,18	11	17	19		

YBTKRC GlobalFiler™

4sp						
	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

YERXCF GlobalFiler™

4sp						
	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	

YMT4GJ PowerPlex® Fusion 6C (STRmix)

4sp						
	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23	12,13	12,12	19,20	6,8	8,10
	17,18	11	17	19		

YR3JQ8 PowerPlex® Fusion 5C

4sp						
	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				

YWXBWJ Investigator® 24plex QS

4sp						
	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11				

YX96NC PowerPlex® Fusion 5C

4sp						
	12,15	17,18	11,14	15,16	11,12	
	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

WebCode / Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
YXP8KD GlobalFiler™						
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	
Z7JY7C GlobalFiler™						
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11,11	11,12
	14,19	15,16	31.2,31.2	12,16	X,Y	10,13
	21,23			19,20	6,8	8,10
	17,18	11			2	
ZTT8FG PowerPlex® Fusion						
	12,15	17,18	11,14	15,16	11,12	
4sp	10,11	12,13	15,18	16,23	11	11,12
	14,19	15,16	31.2	12,16	X,Y	10,13
	21,23	12,13	12		6,8	8,10
	17,18	11				

YSTR Amplification Kit(s) & Results

TABLE 2

WebCode / Item	Amplification Kit							
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 2 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
2NDYRG — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
2V7GXC — Yfiler™									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		
							23		12
37TMK9 — PowerPlex® Y 23									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
3D8E4E — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
3GNTE7 — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
3PZY2W — Yfiler™									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
3QYVY8 — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
3Y7XXD — PowerPlex® Y 23									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
4FPWFW — Yfiler™									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
4GJQBF — PowerPlex® Y 23									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
6FKYH7 — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

TABLE 2

WebCode / Item	Amplification Kit							
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 2 - YSTR Results

WebCode	Amplification Kit	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
6ZCYWG	Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
2		15	12	12	19	27	12	17	10	22
		39	12		17	19	21	23		12
79MF73	Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
2		15	12	12	19	27	12	17	10	22
		39	12		17	19	21	23		12
7DD4C8	Yfiler™		14	12,13	13	30	24	11	13	13
2		15	12	12	19		12	17		
								23		12
7EU268	PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
2		15	12	12	19		12	17		22
		12	12		17	19		23	10	12
888JE3	PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
2		15	12	12	19		12	17		22
		12	12		17	19		23	10	12
8HMKLW	Yfiler™		14	12,13	13	30	24	11	13	13
2		15	12	12	19		<13	17		
								23		12
8MYDN9	Yfiler™		14	12,13	13	30	24	11	13	13
2		15	12	12	19		<13	17		
								23		12
8P8Q7A	Yfiler™		14	12,13	13	30	24	11	13	13
2		15	12	12	19		<13	17		
								23		12
8RRR2W	Yfiler™		14	12,13	13	30	24	11	13	13
2		15	12	12	19		<13	17		
								23		12
8T74RE	Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
2		15	12	12	19	27	12	17	10	22
		39	12		17	19	21	23		12
8XMCFD	PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
2		15	12	12	19		12	17		22
		12	12		17	19		23	10	12
99DKD7	Yfiler™		14	12,13	13	30	24	11	13	13
2		15	12	12	19		<13	17		
								23		12

TABLE 2

WebCode / Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 2 - YSTR Results

WebCode / Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
9B6G3Z — PowerPlex® Y 23									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
9BXL8T — Yfiler™									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
9JV37D — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
A9T4X4 — Yfiler™									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
ACC6RQ — Yfiler™									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
AGJVVW — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
ATWWRP — Yfiler™									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
AY3N39 — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
B8UD6U — PowerPlex® Y 23									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
B8WX4Q — Yfiler™									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
BERZ73 — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
BKGC8Q — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

TABLE 2

WebCode / Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 2 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
BNGN4Q — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
BQQJXV — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
C2MAR2 — Yfiler™		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
C3E6GV — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
CQ6J34 — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
CTB6TP — Yfiler™		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
CWAAVA — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
DKEFX7 — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
DRC87Z — Yfiler™		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
DU44VU — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
DUYZT3 — Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
E3TEHU — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12

TABLE 2

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4

Amplification Kit

Item 2 - YSTR Results

E9YYFZ — Yfiler™

Item	DYF387S1/DYS437/DYS518	DYS19/DYS438/DYS533	DYS385/DYS439/DYS549	DYS389-I/DYS448/DYS570	DYS389-II/DYS449/DYS576	DYS390/DYS456/DYS627	DYS391/DYS458/DYS635	DYS392/DYS460/DYS643	DYS393/DYS481/Y GATA H4
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		
							23		12

EFBA9Q — PowerPlex® Y 23

Item									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12

EJVXAQ — Yfiler™ Plus

Item									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

EZ2F4W — PowerPlex® Y 23

Item									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12

F2UHKK — Yfiler™

Item									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12

FDJEJW — PowerPlex® Y 23

Item									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12

FWYMKX — PowerPlex® Y 23

Item									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12

FZGYNU — PowerPlex® Y 23

Item									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12

G4AMDZ — Yfiler™ Plus

Item									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

GCQ34N — PowerPlex® Y 23

Item									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12

GU9UBZ — Yfiler™

Item									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12

H482HJ — Yfiler™

Item									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12

TABLE 2

WebCode	Amplification Kit							
Item	**DYF387S1**	**DYS19**	**DYS385**	**DYS389-I**	**DYS389-II**	**DYS390**	**DYS391**	**DYS392**	**DYS393**
	DYS437	**DYS438**	**DYS439**	**DYS448**	**DYS449**	**DYS456**	**DYS458**	**DYS460**	**DYS481**
	DYS518	**DYS533**	**DYS549**	**DYS570**	**DYS576**	**DYS627**	**DYS635**	**DYS643**	**Y GATA H4**

Item 2 - YSTR Results

WebCode	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
HMKU9T	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
HTQE7X	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
HVHDKV	Yfiler™								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
J3B67V	Yfiler™								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		
							23		12
J6J7GU	Yfiler™								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
J8B37M									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
JABBBX	Yfiler™								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
JB4FFQ	Yfiler™								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		
							23		12
JDVC6K	Yfiler™								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
JW6K9P	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
K4JPH2	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
KJE23Y	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

TABLE 2

WebCode / Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 2 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
KR8AMP Yfiler™		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		
							23		12
KTY7CJ Yfiler™		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
LEGZDP Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
LMR2YQ Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
MGLXCP Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
MHUWKC Yfiler™		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
MWR89H Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
MWUPEU Yfiler™		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
MZEQAF Yfiler™		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
N88HVF Yfiler™		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
NKTU8P Yfiler™		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		
							23		12
NRXKYV PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
	12	12	17	19			23	10	12

TABLE 2

WebCode / Item	Amplification Kit DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 2 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
NYXUGG — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
P6FL7L — Yfiler™									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		
							23		12
PB4CGM — Yfiler™									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
PENDBA — Yfiler™									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
PGUUQT — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
PVF2UK — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
PYBTZW — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
QL6Z9K — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
QXV32C — Yfiler™									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
R76KLV — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
REJFDJ — Yfiler™									
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		
							23		12
RQNYNJ — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

TABLE 2

WebCode	Amplification Kit							
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 2 - YSTR Results

RV47CH	Yfiler™								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		
							23		12
TA2NQM	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
TPBLL8	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
U6LF3N	Yfiler™								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
U7G2PM	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
U8RXZJ	Yfiler™								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
V6D3JJ	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
WCCZWE	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
WGR9KE	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
X78A49	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
XBD4Y4	Yfiler™								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
XJTTKJ	Yfiler™								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12

TABLE 2

Item / WebCode	DYF387S1 DYS437 DYS518	DYS19 DYS438 DYS533	DYS385 DYS439 DYS549	DYS389-I DYS448 DYS570	DYS389-II DYS449 DYS576	DYS390 DYS456 DYS627	DYS391 DYS458 DYS635	DYS392 DYS460 DYS643	DYS393 DYS481 Y GATA H4

Amplification Kit

Item 2 - YSTR Results

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
XR9C6H	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
XWHRE8	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
XYKKHD	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
Y7GVQF	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
YBTKRC	Yfiler™								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		12	17		
							23		12
YMT4GJ	Yfiler™								
		14	12,13	13	30	24	11	13	13
2	15	12	12	19		<13	17		
							23		12
YX96NC	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
YXP8KD	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
Z7JY7C	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
ZTT8FG	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
2	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

TABLE 2

WebCode / Item	Amplification Kit							
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 3 - YSTR Results

3D8E4E — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

3Y7XXD — PowerPlex® Y 23

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
3	N.D.	N.D.	N.D.	N.D.		N.D.	N.D.		N.D.
		N.D.	N.D.	N.D.	N.D.		N.D.	N.D.	N.D.

6FKYH7 — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

DKEFX7 — PowerPlex® Y 23

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND		ND	ND		ND
		ND	ND	ND	ND		ND	ND	ND

DUYZT3 — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
3	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
	No Results	No Results		No Results	No Results	No Results	No Results		No Results

G4AMDZ — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

LEGZDP — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

LMR2YQ — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

MWR89H — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
3									

RQNYNJ — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

U7G2PM — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

XR9C6H — PowerPlex® Y

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		NT	NT	NT	NT	NT	NT	NT	NT
3	NT	NT	NT	NT		NT	NT		NT
		NT	NT	NT	NT		NT	NT	NT

TABLE 2

WebCode	Amplification Kit								
Item	**DYF387S1**	**DYS19**	**DYS385**	**DYS389-I**	**DYS389-II**	**DYS390**	**DYS391**	**DYS392**	**DYS393**
	DYS437	**DYS438**	**DYS439**	**DYS448**	**DYS449**	**DYS456**	**DYS458**	**DYS460**	**DYS481**
	DYS518	**DYS533**	**DYS549**	**DYS570**	**DYS576**	**DYS627**	**DYS635**	**DYS643**	**Y GATA H4**

Item 3 - YSTR Results

XYKKHD	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

YX96NC	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

ZTT8FG	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

TABLE 2

WebCode	Amplification Kit								
Item	**DYF387S1**	**DYS19**	**DYS385**	**DYS389-I**	**DYS389-II**	**DYS390**	**DYS391**	**DYS392**	**DYS393**
	DYS437	**DYS438**	**DYS439**	**DYS448**	**DYS449**	**DYS456**	**DYS458**	**DYS460**	**DYS481**
	DYS518	**DYS533**	**DYS549**	**DYS570**	**DYS576**	**DYS627**	**DYS635**	**DYS643**	**Y GATA H4**

Item 4 - YSTR Results

Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
3GNTE7 Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
4	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
EZ2F4W PowerPlex® Y 23									
		14	12,13	13	30	24	11	13	13
4	15	12	12	19		12	17		22
		12	12	17	19		23	10	12

TABLE 2

WebCode / Item	Amplification Kit							
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4e - YSTR Results

2NDYRG — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

2V7GXC — Yfiler™

		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		
							23		12

37TMK9 — PowerPlex® Y 23

4e									

3D8E4E — Yfiler™ Plus

	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

3PZY2W — Yfiler™

		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		<13	17		
							23		12

3QYVY8 — Yfiler™ Plus

	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

3Y7XXD — PowerPlex® Y 23

		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
		12	12	17	19		23	10	12

4FPWFW — Yfiler™

		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		<13	17		
							23		12

4GJQBF — PowerPlex® Y 23

		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
		12	12	17	19		23	10	12

6FKYH7 — Yfiler™ Plus

	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

6ZCYWG — Yfiler™ Plus

	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

79MF73 — Yfiler™ Plus

4e									

TABLE 2

WebCode / Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4e - YSTR Results

WebCode / Item	Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8	Col9
7DD4C8 Yfiler™		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		
							23		12
7EU268 PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
888JE3 PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
8HMKLW Yfiler™		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		<13	17		
							23		12
8MYDN9 Yfiler™									
4e									
8P8Q7A Yfiler™									
4e									
8RRR2W Yfiler™		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		<13	17		
							23		12
8T74RE Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
8XMCFD		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
9B6G3Z PowerPlex® Y 23									
4e									
9BXL8T Yfiler™		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		<13	17		
							23		12
9JV37D Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4e - YSTR Results

Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
A9T4X4 — Yfiler™								13	
4e	15	12	12	19					
							23		12
ACC6RQ — Yfiler™		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		<13	17		
							23		12
AGJVVW — Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
ATWWRP — Yfiler™		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		<13	17		
							23		12
AY3N39 — Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
B8UD6U — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12		17	19		23	10	12
B8WX4Q — Yfiler™		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		<13	17		
							23		12
BERZ73 — Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
BKGC8Q — Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
BQQJXV — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12		17	19		23	10	12
C2MAR2 — Yfiler™									
4e									
C3E6GV — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12		17	19		23	10	12

TABLE 2

WebCode	Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4e - YSTR Results

CQ6J34	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12	17	19			23	10	12

CTB6TP	Yfiler™								
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		<13	17		
							23		12

CWAAVA	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12	17	19			23	10	12

DKEFX7	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12	17	19			23	10	12

DRC87Z	Yfiler™								
4e									

DU44VU	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12	17	19			23	10	12

DUYZT3	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

E3TEHU	PowerPlex® Y 23								
4e									

E9YYFZ	Yfiler™								
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		
							23		12

EFBA9Q	PowerPlex® Y 23								
4e									

EJVXAQ	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

F2UHKK	Yfiler™								
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		<13	17		
							23		12

TABLE 2

WebCode / Item	**Amplification Kit**								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4e - YSTR Results

Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
FDJEJW — PowerPlex® Y 23									
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
FWYMKX — PowerPlex® Y 23									
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
G4AMDZ — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
GCQ34N — PowerPlex® Y 23									
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
GU9UBZ — Yfiler™									
4e									
H482HJ — Yfiler™									
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		<13	17		
							23		12
HTQE7X — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
HVHDKV — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
J3B67V — Yfiler™									
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		
							23		12
J6J7GU — Yfiler™									
4e									
J8B37M									
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
JB4FFQ — Yfiler™									
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		
							23		12

TABLE 2

WebCode / Item	Amplification Kit							
DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4e - YSTR Results

JDVC6K — Yfiler™ (4e)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	12,13	13	30	24	11	13	13
15	12	12	19		<13	17		
						23		12

JW6K9P — Yfiler™ Plus (4e)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
34,36	14	12,13	13	30	24	11	13	13
15	12	12	19	27	12	17	10	22
39	12		17	19	21	23		12

K4JPH2 — Yfiler™ Plus (4e)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
34,36	14	12,13	13	30	24	11	13	13
15	12	12	19	27	12	17	10	22
39	12		17	19	21	23		12

KJE23Y — Yfiler™ Plus (4e)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
34,36	14	12,13	13	30	24	11	13	13
15	12	12	19	27	12	17	10	22
39	12		17	19	21	23		12

KR8AMP — Yfiler™ (4e)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	12,13	13	30	24	11	13	13
15	12	12	19		12	17		
						23		12

KTY7CJ — Yfiler™ (4e)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	12,13	13	30	24	11	13	13
15	12	12	19		<13	17		
						23		12

LEGZDP — Yfiler™ Plus (4e)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
34,36	14	12,13	13	30	24	11	13	13
15	12	12	19	27	12	17	10	22
39	12		17	19	21	23		12

LMR2YQ — Yfiler™ Plus (4e)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
34,36	14	12,13	13	30	24	11	13	13
15	12	12	19	27	12	17	10	22
39	12		17	19	21	23		12

MHUWKC — Yfiler™ (4e)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	12,13	13	30	24	11	13	13
15	12	12	19		<13	17		
						23		12

MWR89H — Yfiler™ Plus (4e)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
34,36	14	12,13	13	30	24	11	13	13
15	12	12	19	27	12	17	10	22
39	12		17	19	21	23		12

MWUPEU — Yfiler™ (4e)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393

MZEQAF — Yfiler™ (4e)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	12,13	13	30	24	11	13	13
15	12	12	19		<13	17		
						23		12

TABLE 2

WebCode / Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4e - YSTR Results

WebCode / Item	DYF387S1 · DYS437 · DYS518	DYS19 · DYS438 · DYS533	DYS385 · DYS439 · DYS549	DYS389-I · DYS448 · DYS570	DYS389-II · DYS449 · DYS576	DYS390 · DYS456 · DYS627	DYS391 · DYS458 · DYS635	DYS392 · DYS460 · DYS643	DYS393 · DYS481 · Y GATA H4
N88HVF — Yfiler™		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		<13	17		
							23		12
NKTU8P — Yfiler™		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		
							23		12
NRXKYV — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
NYXUGG — Yfiler™ Plus									
4e									
P6FL7L — Yfiler™		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		
							23		12
PB4CGM — Yfiler™	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
PENDBA — Yfiler™		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		<13	17		
							23		12
PGUUQT — Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
PYBTZW — Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
QXV32C — Yfiler™		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		<13	17		
							23		12
R76KLV — Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
REJFDJ — Yfiler™		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		
							23		12

TABLE 2

WebCode / Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4e - YSTR Results

Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
RQNYNJ — Yfiler™ Plus									
4e	34,36	14	12,13	13	30	24	11	13	13
	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
RV47CH — Yfiler™									
4e		14	12,13	13	30	24	11	13	13
	15	12	12	19		12	17		
							23		12
TA2NQM									
4e		14	12,13	13	30	24	11	13	13
	15	12	12	19		12	17		22
	12	12		17	19		23	10	12
U6LF3N — Yfiler™									
4e									
U7G2PM — Yfiler™ Plus									
4e	34,36	14	12,13	13	30	24	11	13	13
	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
U8RXZJ — Yfiler™									
4e									
V6D3JJ — Yfiler™ Plus									
4e	34,36	14	12,13	13	30	24	11	13	13
	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
WCCZWE — Yfiler™ Plus									
4e									
X78A49 — Yfiler™ Plus									
4e									
XBD4Y4 — Yfiler™									
4e		14	12,13	13	30	24	11	13	13
	15	12	12	19		<13	17		
							23		12
XJTTKJ — Yfiler™									
4e									
XR9C6H — PowerPlex® Y 23									
4e		14	12,13	13	30	24	11	13	13
	15	12	12	19		12	17		22
	12	12		17	19		23	10	12

TABLE 2

Item 4e - YSTR Results

WebCode / Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
XWHRE8	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
XYKKHD	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
Y7GVQF	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
YBTKRC	Yfiler™								
		14	12,13	13	30	24	11	13	13
4e	15	12	12	19		12	17		
							23		12
YMT4GJ	Yfiler™								
4e									
YX96NC	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
YXP8KD	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
ZTT8FG	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
4e	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

TABLE 2

WebCode / Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4sp - YSTR Results

Item									
2NDYRG — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
2V7GXC — Yfiler™									
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		
							23		12
37TMK9 — PowerPlex® Y 23									
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
	12	12		17	19		23	10	12
3D8E4E — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
3PZY2W — Yfiler™									
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
3QYVY8 — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
3Y7XXD — PowerPlex® Y 23									
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
	12	12		17	19		23	10	12
4FPWFW — Yfiler™									
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
4GJQBF — PowerPlex® Y 23									
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
	12	12		17	19		23	10	12
6FKYH7 — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
6ZCYWG — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
79MF73 — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

TABLE 2

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4

Item 4sp - YSTR Results

7DD4C8 — Yfiler™ (4sp)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		14	12,13	13	30	24	11	13	13
	15	12	12	19		12	17		
							23		12

7EU268 — PowerPlex® Y 23 (4sp)

		14	12,13	13	30	24	11	13	13
	15	12	12	19		12	17		22
	12	12	17	19			23	10	12

888JE3 — PowerPlex® Y 23 (4sp)

(no results)

8HMKLW — Yfiler™ (4sp)

		14	12,13	13	30	24	11	13	13
	15	12	12	19		<13	17		
							23		12

8MYDN9 — Yfiler™ (4sp)

		14	12,13	13	30	24	11	13	13
	15	12	12	19		<13	17		
							23		12

8P8Q7A — Yfiler™ (4sp)

		14	12,13	13	30	24	11	13	13
	15	12	12	19		<13	17		
							23		12

8RRR2W — Yfiler™ (4sp)

		14	12,13	13	30	24	11	13	13
	15	12	12	19		<13	17		
							23		12

8T74RE — Yfiler™ Plus (4sp)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	34,26	14	12,13	13	30	24	11	13	13
	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

8XMCFD (4sp)

		14	12,13	13	30	24	11	13	13
	15	12	12	19		12	17		22
	12	12	17	19			23	10	12

9B6G3Z — PowerPlex® Y 23 (4sp)

		14	12,13	13	30	24	11	13	13
	15	12	12	19		12	17		22
	12	12	17	19			23	10	12

9BXL8T — Yfiler™ (4sp)

		14	12,13	13	30	24	11	13	13
	15	12	12	19		<13	17		
							23		12

9JV37D — Yfiler™ Plus (4sp)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	34,36	14	12,13	13	30	24	11	13	13
	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

TABLE 2

WebCode / Item	Amplification Kit / DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4sp - YSTR Results

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
A9T4X4 — Yfiler™		14	12,13	13	30	24	11		13
4sp						<13	17		
ACC6RQ — Yfiler™		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
AGJVVW — Yfiler™ Plus									
4sp									
ATWWRP — Yfiler™		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
AY3N39 — Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
B8UD6U — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
B8WX4Q — Yfiler™		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
BERZ73 — Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
BKGC8Q — Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
BQQJXV — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
C2MAR2 — Yfiler™		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
C3E6GV — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
	12	12	17	19			23	10	12

TABLE 2

WebCode	Amplification Kit							
DYF387S1	**DYS19**	**DYS385**	**DYS389-I**	**DYS389-II**	**DYS390**	**DYS391**	**DYS392**	**DYS393**
Item **DYS437**	**DYS438**	**DYS439**	**DYS448**	**DYS449**	**DYS456**	**DYS458**	**DYS460**	**DYS481**
DYS518	**DYS533**	**DYS549**	**DYS570**	**DYS576**	**DYS627**	**DYS635**	**DYS643**	**Y GATA H4**

Item 4sp - YSTR Results

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
CQ6J34	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
CTB6TP	Yfiler™								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
CWAAVA	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
DKEFX7	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
DRC87Z	Yfiler™								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
DU44VU	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
DUYZT3	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
E3TEHU	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
E9YYFZ	Yfiler™								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		
							23		12
EFBA9Q	PowerPlex® Y 23								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
		12	12	17	19		23	10	12
EJVXAQ	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
F2UHKK	Yfiler™								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12

TABLE 2

WebCode	Amplification Kit							
Item	**DYF387S1**	**DYS19**	**DYS385**	**DYS389-I**	**DYS389-II**	**DYS390**	**DYS391**	**DYS392**	**DYS393**
	DYS437	**DYS438**	**DYS439**	**DYS448**	**DYS449**	**DYS456**	**DYS458**	**DYS460**	**DYS481**
	DYS518	**DYS533**	**DYS549**	**DYS570**	**DYS576**	**DYS627**	**DYS635**	**DYS643**	**Y GATA H4**

Item 4sp - YSTR Results

	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
FDJEJW PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
	12	12	17	19		23	10		12
FWYMKX PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
	12	12	17	19		23	10		12
FZGYNU		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
	12	12	17	19		23	10		12
G4AMDZ Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
GCQ34N PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
	12	12	17	19		23	10		12
GU9UBZ Yfiler™		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
						23			12
H482HJ Yfiler™		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
						23			12
HTQE7X Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
HVHDKV Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
J3B67V Yfiler™		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		
						23			12
J6J7GU Yfiler™		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
						23			12
J8B37M		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
	12	12	17	19		23	10		12

TABLE 2

WebCode	Amplification Kit							
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4sp - YSTR Results

JB4FFQ	Yfiler™								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		
							23		12
JDVC6K	Yfiler™								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
JW6K9P	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
K4JPH2	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
KJE23Y	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
KR8AMP	Yfiler™								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		
							23		12
KTY7CJ	Yfiler™								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
LEGZDP	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
LMR2YQ	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
MHUWKC	Yfiler™								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
MWR89H	Yfiler™ Plus								
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
MWUPEU	Yfiler™								
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12

TABLE 2

WebCode / Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4sp - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
MZEQAF — Yfiler™		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
N88HVF — Yfiler™		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
NKTU8P — Yfiler™		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		
							23		12
NRXKYV — PowerPlex® Y 23		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
	12	12	17	19			23	10	12
NYXUGG — Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
P6FL7L — Yfiler™		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		
							23		12
PB4CGM — Yfiler™	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
PENDBA — Yfiler™		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
PGUUQT — Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
PYBTZW — Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
QXV32C — Yfiler™		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
R76KLV — Yfiler™ Plus	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

TABLE 2

Item 4sp - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
REJFDJ — Yfiler™									
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		
							23		12
RQNYNJ — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
RV47CH — Yfiler™									
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		
							23		12
TA2NQM									
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
	12	12		17	19		23	10	12
U6LF3N — Yfiler™									
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
U7G2PM — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
U8RXZJ — Yfiler™									
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
V6D3JJ — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
WCCZWE — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
X78A49 — Yfiler™ Plus									
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12
XBD4Y4 — Yfiler™									
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12
XJTTKJ — Yfiler™									
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12

TABLE 2

WebCode / Item	DYF387S1 DYS437 DYS518	DYS19 DYS438 DYS533	DYS385 DYS439 DYS549	DYS389-I DYS448 DYS570	DYS389-II DYS449 DYS576	DYS390 DYS456 DYS627	DYS391 DYS458 DYS635	DYS392 DYS460 DYS643	DYS393 DYS481 Y GATA H4

Amplification Kit shown above spans all marker columns.

Item 4sp - YSTR Results

XR9C6H — PowerPlex® Y 23

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
		12	12	17	19		23	10	12

XWHRE8 — PowerPlex® Y 23

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
		12	12	17	19		23	10	12

XYKKHD — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

Y7GVQF — PowerPlex® Y 23

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		22
		12	12	17	19		23	10	12

YBTKRC — Yfiler™

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		12	17		
							23		12

YMT4GJ — Yfiler™

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		14	12,13	13	30	24	11	13	13
4sp	15	12	12	19		<13	17		
							23		12

YX96NC — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

YXP8KD — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

ZTT8FG — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	34,36	14	12,13	13	30	24	11	13	13
4sp	15	12	12	19	27	12	17	10	22
	39	12		17	19	21	23		12

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x

DNA Interpretations

Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 & 4)?

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
23CVV2	Yes	Yes	No	Yes	62443A	Yes	Yes	No	Yes
2NDYRG	Yes	Yes	No	Yes	69U8LD	Yes	Yes	No	Yes
2V7GXC	Yes	Yes	No	Yes	6FKYH7	Yes	Yes	No	Yes
2VF4M8	Yes	Yes	No	Yes	6JR9XH	No Interp	No Interp	No Interp	No Interp
37TMK9	Yes	Yes	No	Yes	6ZCYWG	Yes	Yes	No	Yes
39UFNE	Yes	Yes	No	Yes	78AZNU	Yes	Yes	No	Yes
3ABDXD	Yes	Yes	No	Yes	79HC4B	No Interpretations Reported, DNA Analyzed for Database purposes only.			
3D8E4E	Yes	Yes	No	Yes	79MF73	Yes	Yes	No	Yes
3DANTD	Yes	No	No	Yes	7CMR33	No Interpretations Reported, DNA Analyzed for Database purposes only.			
3GNTE7	Yes	Yes	No	Yes	7DD4C8	Yes	Yes	No	Yes
3MVECC	Yes	Yes	No	Yes	7EU268	Yes	Yes	No	Yes
3PZY2W	Yes	Yes	No	Yes	888JE3	Yes	Yes	No	Yes
3QYVY8	Yes	Yes	No	Yes	8B8RHD	Yes	Yes	No	Yes
3Y7XXD	Yes	Yes	No	Yes	8DQTDY	Yes	Yes	No	Yes
477CLZ	Yes	Yes	No	Yes	8GUNW3	Yes	Yes	No	Yes
47Z9J9	Yes	Yes	No	Yes	8HMKLW	Yes	Yes	No	Yes
49T683	Yes	Yes	No	Yes	8MYDN9	Yes	Yes	No	Yes
4FPWFW	Yes	Yes	No	Yes	8P8Q7A	Yes	Yes	No	Yes
4GJQBF	Yes	Yes	No	Yes	8RRR2W	Yes	Yes	No	Yes
4ZKJ8E	Yes	Yes	No	Yes	8T74RE	Yes	Yes	No	Yes

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
8XMCFD	Yes	Yes	No	Yes	BR2LJT	Yes	Yes	No	Yes
99DKD7	No Interpretations Reported, DNA Analyzed for Database purposes only.				C2MAR2	Yes	Yes	No	Yes
9B6G3Z	Yes	Yes	No	Yes	C3E6GV	Yes	Yes	No	Yes
9BXL8T	Yes	Yes	No	Yes	CBUNXA	Yes	Yes	No	Yes
9JV37D	Yes	Yes	No	Yes	CLPBE4	Yes	Yes	No	Yes
A9T4X4	Yes	Yes	No	Yes	CPQ4X3	Yes	Yes	No	Yes
ACC6RQ	Yes	Yes	No	Yes	CQ6J34	Yes	Yes	No	Yes
AGJVVW	Yes	Yes	No	Yes	CTB6TP	Yes	Yes	No	Yes
APVVP8	Yes	Yes	No	Yes	CWAAVA	Yes	Yes	No	Yes
ATWWRP	Yes	Yes	No	Yes	DHNGJ9	Yes	Yes	No	Yes
ATZ288	Yes	Yes	No	Yes	DJFJZW	Yes	Yes	No	Yes
AV63EC	Yes	Yes	No	Yes	DKEFX7	Yes	Yes	No	Yes
AY3N39	Yes	Yes	No	Yes	DRC87Z	Yes	Yes	No	Yes
B6DWA6	Yes	Yes	No	Yes	DU44VU	Yes	Yes	No	Yes
B8UD6U	Yes	Yes	No	Yes	DUYZT3	Yes	Yes	No	Yes
B8WX4Q	Yes	Yes	No	Yes	E3TEHU	Yes	Yes	No	Yes
BERZ73	Yes	Yes	No	Yes	E9YYFZ	Yes	Yes	No	Yes
BJQDTR	Yes	Yes	No	Yes	EDAX3Q	Yes	Yes	No	Yes
BKGC8Q	Yes	Yes	No	Yes	EFBA9Q	Yes	Yes	No	Yes
BNGN4Q	No Interpretations Reported, DNA Analyzed for Database purposes only.				EJVXAQ	Yes	Yes	No	Yes
BQQJXV	Yes	Yes	No	Yes	ER88J6	Yes	Yes	No	Yes

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
EUR9DR	Yes	Yes	No	Yes	HVWW6T	Yes	Yes	No	Yes
EV8HE6	Yes	Yes	No	Yes	HYVDGM	Yes	Yes	No	Yes
EXRJAR	Yes	Yes	No	Yes	J3B67V	Yes	Yes	No	Yes
EZ2F4W	Yes	Yes	No	Yes	J6J7GU	Yes	Yes	No	Yes
F2UHKK	Yes	Yes	No	Yes	J8B37M	Yes	Yes	No	Yes
FDJEJW	Yes	Yes	No	Yes	JABBBX	Yes	Yes	No	Yes
FJQ6M3	Yes	Yes	No	Yes	JB4DQL	Yes	Yes	No	Yes
FL3PNQ	Yes	Yes	No	Yes	JB4FFQ	Yes	Yes	No	Yes
FMUN2N	No Interp	No Interp	No Interp	No Interp	JDVC6K	Yes	Yes	No	Yes
FWYMKX	Yes	Yes	No	Yes	JPQC8N	Yes	Yes	No	Yes
FZGYNU	Yes	Yes	No	Yes	JW6K9P	Yes	Yes	No	Yes
G4AMDZ	Yes	Yes	No	Yes	K47UEH	Yes	Yes	No	Yes
GA2LW2	Yes	Yes	No	Yes	K4JPH2	Yes	Yes	No	Yes
GCQ34N	Yes	Yes	No	Yes	K9YX72	No Interp	No Interp	No Interp	No Interp
GU9UBZ	Yes	Yes	No	Yes	KJE23Y	Yes	Yes	No	Yes
GUMGMM	Yes	Yes	No	Yes	KR8AMP	Yes	Yes	No	Yes
H482HJ	Yes	Yes	No	Yes	KTY7CJ	Yes	Yes	No	Yes
HBQBUM	Yes	Yes	No	Yes	KWYG7Y	Yes	Yes	No	Yes
HMKU9T	Yes	Yes	No	Yes	L6R9QX	Yes	Yes	No	Yes
HTQE7X	Yes	Yes	No	Yes	LEGZDP	Yes	Yes	No	Yes
HVHDKV	Yes	Yes	No	Yes	LMR2YQ	Yes	Yes	No	Yes

TABLE 4

| WebCode | Victim (Item 1) | | Suspect (Item 2) | | WebCode | Victim (Item 1) | | Suspect (Item 2) | |
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
M7JDCH	Yes	Yes	No	Yes	PENDBA	Yes	Yes	No	Yes
MGLXCP	Yes	Yes	No	Yes	PGUUQT	Yes	Yes	No	Yes
MHUWKC	Yes	Yes	No	Yes	PVF2UK	Yes	Yes	No	Yes
MWR89H	Yes	Yes	No	Yes	PYBTZW	Yes	Yes	No	Yes
MWUPEU	Yes	Yes	No	Yes	QL6Z9K	Yes	Yes	No	Yes
MZEQAF	Yes	Yes	No	Yes	QXV32C	Yes	Yes	No	Yes
N3JN9F	Yes	Yes	No	Yes	R76KLV	Yes	Yes	No	Yes
N88HVF	Yes	Yes	No	Yes	R7LUCB	Yes	Yes	No	Yes
NDFRBN	Yes	Yes	No	Yes	REJFDJ	Yes	Yes	No	Yes
NE8NYH	Yes	Yes	No	Yes	RK89FB	Yes	Yes	No	Yes
NET2NV	Yes	Yes	No	Yes	RQNYNJ	Yes	Yes	No	Yes
NJ3HWJ	No Interpretations Reported, DNA Analyzed for Database purposes only.				RV47CH	Yes	Yes	No	Yes
NKDBMR	Yes	Yes	No	Yes	RWF78R	No Interpretations Reported, DNA Analyzed for Database purposes only.			
NKTU8P	Yes	Yes	No	Yes	T37LNC	Yes	Yes	No	Yes
NP93VN	Yes	Yes	No	Yes	TA2NQM	Yes	Yes	No	Yes
NRXKYV	Yes	Yes	No	Yes	TCLPKA	Yes	Yes	No	Yes
NWDTMU	Yes	Yes	No	Yes	TJKCAN	No Interpretations Reported, DNA Analyzed for Database purposes only.			
NYXUGG	Yes	Yes	No	Yes	TJQCMB	Yes	Yes	No	Yes
P3DNVT	No Interpretations Reported, DNA Analyzed for Database purposes only.				TMQMGP	Yes	Yes	No	Yes
P6FL7L	Yes	Yes	No	Yes	TPBLL8	No Interpretations Reported, DNA Analyzed for Database purposes only.			
PB4CGM	Yes	Yes	No	Yes	TU4QDQ	Yes	Yes	No	Yes

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
U6LF3N	Yes	Yes	No	Yes	XUTDY6	Yes	Yes	No	Yes
U7G2PM	Yes	Yes	No	Yes	XWHRE8	Yes	Yes	No	Yes
U8RXZJ	Yes	Yes	No	Yes	XXTL4F	Yes	Yes	No	Yes
UMNDZD	No Interpretations Reported, DNA Analyzed for Database purposes only.				XYKKHD	Yes	Yes	No	Yes
UNX9HB	Yes	Yes	No	Yes	Y7GVQF	Yes	Yes	No	Yes
UVEX4Q	Yes	Yes	No	Yes	Y7MYT8	Yes	Yes	No	Yes
V6D3JJ	Yes	Yes	No	Yes	YBTKRC	Yes	Yes	No	Yes
VVCD9A	Yes	Yes	No	Yes	YERXCF	Yes	Yes	No	Yes
WADR4K	Yes	Yes	No	Yes	YMT4GJ	Yes	Yes	No	Yes
WCCZWE	Yes	Yes	No	Yes	YR3JQ8	Yes	Yes	No	Yes
WGR9KE	Yes	Yes	No	Yes	YWXBWJ	Yes	Yes	No	Yes
WHHKUJ	Yes	Yes	No	Yes	YX96NC	Yes	Yes	No	Yes
WL69G6	Yes	Yes	No	Yes	YXP8KD	Yes	Yes	No	Yes
WW94ZB	Yes	Yes	No	Yes	Z7JY7C	Yes	Yes	No	Yes
WZXUVK	Yes	Yes	No	Yes	ZTT8FG	Yes	Yes	No	Yes
X3M9AM	Yes	Yes	No	Yes					
X78A49	Yes	Yes	No	Yes					
XBD4Y4	Yes	Yes	No	Yes					
XJTTKJ	Yes	Yes	No	Yes					
XR9C6H	Yes	Yes	No	Yes					
XRMZ7A	No Interpretations Reported, DNA Analyzed for Database purposes only.								

DNA Interpretation

Response Summary   **Participants reporting DNA results: 202**

Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 & 4)?

	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4
Yes	**188**	**187**	**0**	**188**
No	**0**	**1**	**188**	**0**
Inc	**0**	**0**	**0**	**0**
No Interpretation	**3**	**3**	**3**	**3**
No Response	**0**	**0**	**0**	**0**

Participants analyzing DNA for database purposes only: 11

Additional Comments

TABLE 5

WebCode	Additional Comments
23CVV2	STRmix analysis was conducted on this test.
2V7GXC	Extraction: Item 3 and Item 4 were extracted using the Chelex extraction method. Quantification: Item 3 and Item 4 were quantified using the Applied Biosystems™ Quantifiler™ Human DNA Quantification Kit on the Applied Biosystems™ QuantStudio™ 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using the Applied Biosystems™ GlobalFiler™ Express PCR Amplification Kit on the Applied Biosystems™ ProFlex™ 96-well PCR System. By using the in-situ method, Item 2 was also amplified using the Applied Biosystems™ AmpFLSTR™ Yfiler™ PCR Amplification Kit on the Applied Biosystems™ GeneAmp™ PCR System 9700. Item 3 and Item 4 were amplified using the Applied Biosystems™ GlobalFiler™ PCR Amplification Kit on the Applied Biosystems™ GeneAmp™ PCR System 9700. The Item 4 was also amplified using the Applied Biosystems™ AmpFLSTR™ Yfiler™ PCR Amplification Kit on the Applied Biosystems™ GeneAmp™ PCR System 9700. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems™ 3500xL Genetic Analyzer and the data were analyzed with Applied Biosystems™ GeneMapper™ ID-X Software v1.5. Quality control: Reagent Blank, Positive Control and Negative Control were included throughout the analysis, and all gave intended results. Remark: 'NM' denotes non-male profile.
39UFNE	Authorized in STRs. Not authorized in YSTRs.
3D8E4E	STRmix analysis was conducted on this test. Data reported out in this test is from analysis using GeneMapper ID-X. ; NR = No Results
3QYVY8	Y-STR not performed on Item 1 or Item 3 because they gave no T.Y value with Quantifiler Trio.
3Y7XXD	"N.D." = No Data/Not Detected. The extracts from items 3 and 4 were tested for the presence of human blood using the ABAcard HemaTrace test. Human blood was detected on items 3A and 4A. NOTE: the HemaTrace test is known to crossreact with some species of the Mustelidae family and with higher primates. Sperm cells were identified on the cutting of the RBS on the underwear (item 4A). Items 1 and 2 were also DNA profiled with the Fusion Direct Amp protocol.
47Z9J9	Authorized in STRs only. Not authorized in Y-STR.
62443A	Authorized in STRs. Not authorized in YSTRs.
6FKYH7	NR = No Results. STRmix analysis was conducted on this test. Data reported out in this test is from analysis using Genemapper ID-X.
6JR9XH	Test participant functions as Y-screen technician and does not perform interpretations.
79HC4B	Casework reference analyst; not authorized to process evidence items. Items 3 and 4 not processed. Not authorized to perform Y-STR testing.
7CMR33	NR = No results
7DD4C8	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 and Item 4 were extracted using the Chelex extraction method. Quantification: Item 3 and Item 4 were quantified using the Quantifiler Human DNA Quantification kit on the Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 system. Amplification: Item 1 and Item 2 were amplified using the Globalfiler Express PCR Amplification Kit on the 9700 GeneAmp PCR System. Item 3 and Item 4 were amplified using the Globalfiler PCR Amplification Kit on the 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 2 and Item 4 using the AmpFlSTR Y-filer PCR Amplification Kit on the 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems 3500xl Genetic Analyzer with Genemapper ID-X Software for Item 1 and Item 2 (Globalfiler Express), Item 3 and Item 4 (Globalfiler). Electrophoresis for Y-Filer was carried out on the Applied Biosystems 3500xl with Genemapper ID-X Software for Item 2 and Item 4. Quality Control: Reagent blank, positive control and negative control were carried out throughout the analysis and all gave intended results. NM = Non Male profile.
8MYDN9	NR=No Results

TABLE 5

WebCode	Additional Comments
8P8Q7A	NR=no results
99DKD7	NR=no results
A9T4X4	NR = no results
APVVP8	Authorized in STRs. Not authorized in YSTRs.
AY3N39	Allele tables added by automatic upload
BNGN4Q	Databasing only; Items 3 and 4 not processed since they are evidence samples. Not authorized to analyze, report, or interpret evidence samples. Not authorized in Serology or mito.
BR2LJT	STRmix analysis was conducted on this test. A differential separation was performed on sample Q1.3.1. Insufficient human DNA was detected on Q1.3.1s, therefore there will not be reporting on this fraction.
C2MAR2	NR= No Result. Item #1-4.1-S: A potential allele (28) that cannot be differentiated from an artifact was observed at locus DYS389 II.
CLPBE4	Authorized to report STRs. Not authorized to report YSTRs.
DKEFX7	Please note that "ND" is used to indicate loci with "No Data" or no results obtained. Testing for the presence of human blood is performed with the ABAcard HemaTrace test kit. This kit is known to cross-react with some species of the Mustelidae family and with higher primates.
DRC87Z	NR = No Results
E9YYFZ	Extraction: -Item 1 and Item 2 were extracted using in-situ method. -Item 3 was extracted using Automate Express DNA Extraction System with PrepFiler Express Kit. -Item 4 was extracted using Chelex differential extraction method. Quantification: -Item 3, Item 4(sp) and Item 4(epi) were quantified using Applied Biosystem Quantifiler Trio DNA Quantification kit on QuantStudio 5 Real-Time PCR. Amplification: -Item 1 and Item 2 were amplified using GlobalFiler Express Amplification kit. -Item 3 and Item 4(sp) and Item 4(epi) were amplified using GlobalFiler Amplification kit. -Item 2 and Item 4(sp) and Item 4(epi) were amplified using AmpFLSTR™ Yfiler™ PCR Amplification Kit. -All amplification performed on ProFlex PCR System. Electrophoresis: -All amplified product of GlobalFiler and Y-Filer were run on Genetic Analyzer 3500. Quality Control: -All reagent blank, positive control, negative control, were carried out through out the analysis and all gave intended results. Remarks: - NM : Non-male profile.
FJQ6M3	Y-STR not performed - not authorized.
FMUN2N	Test participant functions as Y-screen technician and does not perform interpretations.
G4AMDZ	STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GMID-X. NR = no results.
GU9UBZ	NR = No Results
GUMGMM	STRmix analysis was conducted on this test.
HMKU9T	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.
J3B67V	Extraction: Item 3 was extracted using Chelex Extraction. Item 4 was extracted using Differential Chelex Extraction. Quantification: Item 3 and Item 4 were quantified using the Quantifiler Human DNA quantitation kit and carried out by QuantStudio™ 5 Real-Time PCR. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express Kit on 9700 GeneAmp PCR System. Item 3 and Item 4 were amplified using GlobalFiler Kit on 9700 GeneAmp PCR System. Item 2 and Item 4 were amplified using AMPFlSTR YFiler Kit on 9700 GeneAmp PCR System. Electrophoresis: The electrophoresis process was carried out by Genetic Analyser 3500xl for Item 1 to Item 4. Quality Control: Reagent blank, positive control, and negative control were carried out along with the analysis and all gave the intended results. *NM denotes non male profile.
J6J7GU	NR=No Results
JABBBX	NR = No Results

TABLE 5

WebCode	Additional Comments
JB4FFQ	1. Extraction: 1.1 Item 1 and Item 2 were extracted using in-situ method. 1.2 Bloodstains extraction on Item 3 was carried out using QIAsymphony DNA Investigator Kit via QIAsymphony SP. 1.3 Differential extraction on Item 4 was carried out using chelex method. 2. Quantification: Item 3 and Item 4 were quantified using Quantifiler Trio on QuantStudio 5 RT-PCR. 3. Amplification on 9700 GeneAmp PCR System and Proflex PCR System (GlobalFiler Express): 3.1 Item 1 and Item 2 were amplified using GlobalFiler Express PCR amplification Kit. 3.2 Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit. 3.3 Item 2 and Item 4 were amplified using YFiler PCR Amplification Kit. 4. Electrophoresis were carried out on Genetic Analyzer 3500xL. 5. Quality Control; reagent blank, positive and negative control were carried out through analysis and all gave intended results. 6. NM indicate non-male profile.
K47UEH	STRmix analysis was conducted on this test.
K9YX72	Test participant functions as Y-screen technician and does not perform interpretations.
KR8AMP	Extraction: Item 1 and Item 2 were extracted using in situ method. Item 3 and Item 4 were extracted using DNA QIAsymphony DNA Investigator kit on QIAsymphony SP. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Trio DNA Quantification kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using Globalfiler Express PCR Amplification Kit on ABI Proflex PCR System. Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Item 2 and Item 4 were amplified using AmpFLSTR Y-filer PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis was carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Electrophoresis was carried out on ABI 3500xL Genetic Analyzer for Item 2 and Item 4 (Y-Filer Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out during analysis, and all gave intended results. NM: Non-male allele.
KWYG7Y	YSTR testing not performed. Not authorized for YSTR.
L6R9QX	Y-STR not performed. Not authorized in Y-STRs. Only authorized to report STRs.
LEGZDP	NR=no results STRmix analysis was conducted on item 4e. Data reported out is from analysis using GeneMapper ID-X.
LMR2YQ	STRmix analysis was conducted on this test, data reported out in this test is from analysis using GeneMapper ID-X, NR= no results
M7JDCH	STRmix analysis was conducted on this test.
MGLXCP	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.
MWUPEU	NR=no result
N3JN9F	STRmix analysis was conducted on this test.
NDFRBN	ND = Not Detected.
NKDBMR	Authorized in STRs. Not authorized in YSTRs.
NKTU8P	Extraction: Item 1 and Item 2 were extracted using in-situ method. Item 3 was extracted using Automate Express Forensic DNA Extraction System with PrepFiler Express Kit method while Item 4 was extracted using Chelex differential extraction method. Quantification: DNA quantitation for Item 3 and Item 4 were carried out using the Quantifiler Human DNA Quantification kit with Applied Biosystem QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express PCR Amplification kit on 9700 GeneAmp PCR System. Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification kit on 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 2 and Item 4 using AmFlSTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 1 and Item 2 (GlobalFiler Express) and Item 3 and Item 4 (GlobalFiler). Electrophoresis for Y-Filer was carried out on Genetic Analyzer 3500xl for Item 2 and Item 4. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. Abbreviation: NM: Non-male Profile.

TABLE 5

WebCode	Additional Comments
NP93VN	Y-STR not performed - Not authorized in YSTRs. Analyst is authorized to report STRs.
NRXKYV	Human blood was confirmed on Items 3 and 4 with the ABAcard HemaTrace test kit. This kit is known to cross-react with some species of the Mustelidae family and with higher primates. Sperm cells were microscopically identified on Item 4. Items 1 and 2 were amplified using the Promega PowerPlex Fusion direct amplification procedure. ND = No Data
P3DNVT	Authorized to report Rapid DNA (STRs). Not authorized in reporting Y-STRs or evidence samples. Items 3 and 4 not processed.
P6FL7L	Extraction: Item 1 and Item 2 were extracted using in-situ extraction method, Item 3 was extracted using QIAsymphony DNA Investigator Kit via QIAsymphony SP platform and Item 4 was extracted using differential extraction method. Quantification: Item 3 and Item 4 were quantified using Quantifiler Trio DNA kit on RT-PCR QuantStudio 5 System. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express kit on Proflex PCR System while Item 3 and Item 4 were amplified using GlobalFiler kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 2 and Item 4 using AmFlSTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis of GlobalFiler Express for Item 1 and Item 2, GlobalFiler for Item 3 and Item 4, and Y-Filer for Item 2 and Item 4 were carried out on Genetic Analyzer 3500xL. Quality Control: Reagent blank, positive control and negative control were incorporated throughout analysis and all gave intended results. NM : non-male profile.
PB4CGM	Item 3 was not amped in Y-Filer Plus, as the Y-quant was undet. As per standard laboratory protocol, YSTR testing is requested after looking at the Y-quant values.
PVF2UK	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.
QL6Z9K	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.
REJFDJ	Extraction: Item 1 and Item 2 were extracted using in-situ method. Item 3 and Item 4 were extracted using QIASymphony extraction method. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Trio DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express PCR Amplification Kit on Proflex PCR System. Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Item 2 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1 and Item 2 (GlobalFiler Express Kit), Item 3 and Item 4 (GlobalFiler Kit). Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 2 and Item 4 (Y-Filer Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. NM: Non male profile
RK89FB	STRmix analysis was conducted on this test.
RQNYNJ	NR = No Results. STRmix analysis done on Item 4F (F = e). All reported results from GeneMapper ID-X analysis
RV47CH	Extraction: - Item 1 and Item 2 were extracted using in-situ method. Item 3 and Item 4 were extracted using QIAsymphony DNA Investigator Kit via QIAsymphony SP. Quantification: - Item 3 and Item 4 were quantified using Applied Biosystem Quantifiler Trio DNA Quantification kit on QuantStudio 5 Real-Time PCR System. Amplification: - Item 1 and Item 2 were amplified using GlobalFiler Express Amplification kit on Proflex PCR system. Item 3 and Item 4 were amplified using GlobalFiler Amplification kit on GeneAmp 9700 system. Item 2 and Item 4 were amplified using Y-Filer Kit on GeneAmp 9700 system. Electrophoresis: - All amplified products were run on Genetic Analyzer 3500XL. Quality Control: - All reagent blank, positive control and negative control, were carried out throughout the analysis and all gave intended results. Remarks: - NM : Non-male profile.
RWF78R	Casework reference analyst; not authorized to report conclusions. Not authorized in YSTRs.

TABLE 5

WebCode	Additional Comments
T37LNC	Item 3 was extracted via differential separation, per laboratory protocol. No DNA was detected in the sperm fraction, so the report will reflect the non-sperm fraction (epi-fraction) only. STRmix analysis was conducted on this test.
TA2NQM	Portions of the extracts from Items 3 and 4 were tested for the presence of human blood using the HemaTrace test. Human blood WAS detected. NOTE: The ABACard HemaTrace test kit is known to cross-react with some species of the Mustelidae family and with higher primates.
TJKCAN	Casework reference analyst; not authorized to report conclusions. Items 3 and 4 were not processed. Authorized in STRs. Not authorized to analyze, interpret, or report YSTRs.
TPBLL8	Databasing only; Items 3 and 4 not processed since they are evidence samples. Not authorized to analyze, report, or interpret evidence samples. Not authorized in serology or mito.
TU4QDQ	Not authorized in YSTRs.
U6LF3N	NR = no results
U7G2PM	Note: 1) NR = No Results. 2) DNA Interpretation was based on the analysis using GeneMapper ID-X. 3) STRmix analysis was performed on Item4F.
U8RXZJ	NR = No results.
UMNDZD	NR = Not Reported
V6D3JJ	Authorized to report STRs and Y-STRs. Not authorized to report serology or mito.
WGR9KE	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. Powerplex Fusion 6C is used only for allele verification.
WHHKUJ	Authorized in STRs only, not YSTRs.
WL69G6	STRmix analysis was conducted on this test.
WZXUVK	Y-STR not performed - not authorized to perform Y-STR testing.
XJTTKJ	NR = No Results
XR9C6H	-Items 1 and 2 were amplified with Direct Amp and Fusion. -Item 3 was tested for the presence of human blood using the HemaTrace test. Human blood was confirmed. -NR= no result. -NT= not tested.
XRMZ7A	NR = No Results
XXTL4F	Y-STR testing not performed, not authorized in Y-STRs.
XYKKHD	NR indicates no results. STRmix analysis was conducted on this test. Reported data is from analysis with GeneMapper ID-X.
Y7GVQF	Item 4 sp: Imbalanced alleles {12, 13} at D8S1179
YBTKRC	1) Extraction: -Item 1 and Item 2 were extracted using in-situ method. -Item 3 were extracted using the DNA QIAsymphony DNA Investigator kit on QIAsymphony SP. -Item 4 were extracted using Chelex extraction method (differential extraction method). 2) Quantification: -Item 3 and Item 4 were quantified using ABI Quantifiler Trio DNA Quantification kit on ABI QuantStudio 5 Real-Time PCR System. 3) Amplification: -Item 1 and Item 2 were amplified using GlobalFiler Express PCR Amplification Kit on ABI ProFlex PCR System. -Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. -Item 2 and Item 4 were further amplified using AmFlSTR Y-Filer PCR Amplification Kit on ABI GeneAmp PCR System 9700. 4) Electrophoresis: -Electrophoresis was carried out on Genetic Analyzer 3500xL for Item 1 and Item 2 (GlobalFiler Express), Item 3 and Item 4 (GlobalFiler). -Electrophoresis was also carried out on Genetic Analyzer 3500xL for Item 2 and Item 4(Y-Filer). 5) Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. 6) NM represent Non-male profile.
YERXCF	Y-STR portion not completed; not authorized in Y-STRs.
YMT4GJ	NR = No Results

TABLE 5

WebCode	Additional Comments
YX96NC	NR=No Result. STRmix was used for analysis on this test but the data reported out was analyzed with Genemapper-IDX.
Z7JY7C	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.
ZTT8FG	NR=No Results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.

-End of Report-
(Appendix may follow)

Test No. 24-5802: DNA-Semen

DATA MUST BE SUBMITTED BY **May 06, 2024, 11:59 p.m. EDT** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A   WebCode: PZTMZ7

The Accreditation Release section can be accessed by using the "Continue to Final Submission" button above. This information can be entered at any time prior to submitting to CTS.

Scenario:

Police are investigating a sexual assault involving a female victim and male suspect. The victim reports to police that the suspect, her boyfriend, forced her to have sex in a hotel room. The victim is not able to remember most of the assault and is unsure if the suspect ejaculated; however, she does have multiple wounds on her arms and face. Police are submitting to your laboratory a stain from the top sheet on the hotel bed (Item 3) and a stain from the underwear the victim was wearing during the assault (Item 4). Screening tests have been performed on both samples with the following results: Item 3 (top sheet from hotel bed) is positive for blood, and Item 4 (victim's underwear) is positive for blood and semen. Also collected were known blood samples from the female victim (Item 1) and the male suspect (Item 2).

Items Submitted (Sample Pack S2):

Item 1: Known blood from the female victim
Item 2: Known blood from the male suspect
Item 3: Questioned blood stain from top sheet from hotel bed (yellow)
Item 4: Questioned blood and semen stain from victim's underwear (green)

Part I: DNA Results for Known Item 1

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

<u>STR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler® [   ]   ☐ GlobalFiler™ [   ]   ☐ Investigator® 24plex [   ]

☐ PowerPlex® [   ]   Other [   ]

Report the Probabilistic Genotyping Software Used (if applicable): [   ]

Alleles below are sorted in **Default** *order.*

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
1						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
1						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
1						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
1						

Part I (continued): DNA Results for Known Item 2

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

<u>STR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler®   ☐ GlobalFiler™   ☐ Investigator® 24plex

☐ PowerPlex®   Other

Report the Probabilistic Genotyping Software Used (if applicable):

Alleles below are sorted in **Default** *order.*

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
2						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
2						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
2						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
2						

<u>YSTR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

☐ YFiler™   ☐ PowerPlex® Y   Other

Alleles below are sorted in **Default** *order.*

ITEM	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
2									
ITEM	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
2									
ITEM	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
2									

Part I (continued): DNA Results for Questioned Item 3

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

<u>STR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler® [   ]   ☐ GlobalFiler™ [   ]   ☐ Investigator® 24plex [   ]

☐ PowerPlex® [   ]   Other [   ]

Report the Probabilistic Genotyping Software Used (if applicable): [   ]

Did you perform a differential extraction of Item 3?   YES ○   NO ○

Alleles below are sorted in **Default** *order.*

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3						
3 e						
3 sp						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
3						
3 e						
3 sp						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
3						
3 e						
3 sp						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
3						
3 e						
3 sp						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
3						
3 e						
3 sp						

<u>YSTR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

☐ YFiler™ [   ]   ☐ PowerPlex® Y [   ]   Other [   ]

Did you perform a differential extraction of Item 3?   YES ○   NO ○

Alleles below are sorted in **Default** *order.*

ITEM	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
3									
3 e									
3 sp									
ITEM	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
3									
3 e									
3 sp									
ITEM	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
3									
3 e									
3 sp									

Part I (continued): DNA Results for Questioned Item 4

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

STR Amplification Kit(s) Used: Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler®   ☐ GlobalFiler™   ☐ Investigator® 24plex

☐ PowerPlex®   Other

Report the Probabilistic Genotyping Software Used (if applicable):

Did you perform a differential extraction of Item 4?   YES ○   NO ○

*Alleles below are sorted in **Default** order.*

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4						
4 e						
4 sp						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
4						
4 e						
4 sp						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
4						
4 e						
4 sp						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
4						
4 e						
4 sp						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
4						
4 e						
4 sp						

YSTR Amplification Kit(s) Used: Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

☐ YFiler™   ☐ PowerPlex® Y   Other

Did you perform a differential extraction of Item 4?   YES ○   NO ○

*Alleles below are sorted in **Default** order.*

ITEM	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
4									
4 e									
4 sp									
ITEM	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
4									
4 e									
4 sp									
ITEM	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
4									
4 e									
4 sp									

Part I (continued): DNA Analysis - Additional DNA

- Use this section to report results for loci not currently listed in other sections of the data sheet.
- Report alleles in numerical order, separated by a comma.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].
- Click "Add Row" to show another row of boxes for entry.

Did you perform a differential extraction of Item 3?   Yes ◯   No ◯

Did you perform a differential extraction of Item 4?   Yes ◯   No ◯

Locus	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp

Part II: DNA INTERPRETATION

Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 & 4)?

	Victim (Item 1)			Suspect (Item 2)	
	Item 3	Item 4		Item 3	Item 4
Yes	○	○	Yes	○	○
No	○	○	No	○	○
Inconclusive	○	○	Inconclusive	○	○
No Interpretation	○	○	No Interpretation	○	○

DNA interpretations not reported; samples analyzed for database purposes only: ☐

Part III: ADDITIONAL COMMENTS

- Use this section to report comments regarding any part of this test.
- Written conclusions (including statistical information) for DNA analysis are not required.
- Any interpretations based on the results obtained should be indicated in the section above.
- Note: Laboratories submitting their results for accreditation are asked to report any additional information that will assist in the review of their results. This includes an explanation of any deviations from a full completion of the test and/or unique findings such as elevated stutter.

Please note: Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.

RELEASE OF DATA TO ACCREDITATION BODIES

The Accreditation Release is accessed by pressing the "Continue to Final Submission" button online and can be completed at any time prior to submission to CTS.

CTS submits external proficiency test data directly to ANAB and/or A2LA. Please select one of the following statements to ensure your data is handled appropriately.

○ This participant's data is intended for submission to ANAB and/or A2LA. (Accreditation Release section below must be completed.)
○ This participant's data is **not** intended for submission to ANAB and/or A2LA.

Have the laboratory's designated individual complete the following steps
only if your laboratory is accredited in this testing/calibration discipline
by one or more of the following Accreditation Bodies.

Step 1: Provide the applicable Accreditation Certificate Number(s) for your laboratory

ANAB Certificate No. [   ]

A2LA Certificate No. [   ]

Step 2: Complete the Laboratory Identifying Information in its entirety

Authorized Contact Person and Title

[   ]

Laboratory Name

[   ]

Location (City/State)

[   ]